

CURRICULUM VITAE
BHRAMAR MUKHERJEE, PhD

CONTACT INFORMATION

OFFICE Yale School of Public Health
60 College Street
New Haven, CT 06510
Phone 203-737-8864
Email bhramar.mukherjee@yale.edu
Citizenship Status US Citizen

CURRENT ACADEMIC POSITIONS

2024-	Anna M. R. Lauder Professor of Biostatistics	School of Public Health Yale University
2024-	Professor of Chronic Disease Epidemiology	School of Public Health Yale University
2024-	Professor of Statistics and Data Science	School of Public Health Yale University
2024-	Senior Associate Dean for Public Health Data Science and Data Equity	School of Public Health Yale University
2023-	Honorary Senior Visiting Fellow	MRC Biostatistics Unit University of Cambridge, UK
2024-	Overseas Fellow	Churchill College University of Cambridge, UK
2024-	Adjunct Professor	Department of Biostatistics University of Michigan, Ann Arbor.

PAST ACADEMIC POSITIONS

2018-2024	Chair	Department of Biostatistics University of Michigan
2020-2024	Associate Director	Quantitative Data Sciences Rogel Cancer Center, Michigan Medicine
2023-2024	John D. Kalbfleisch Distinguished University Professor	Department of Biostatistics University of Michigan
2023-2024	Assistant Vice President For Research	Office of the Vice President for Research University of Michigan

2023-2024	Siobán D. Harlow Collegiate Professor of Public Health	University of Michigan School of Public Health
2018-2022	Associate Workgroup Director For Cohort Development	Precision Health University of Michigan
2017-2024	Professor Global Public Health	School of Public Health University of Michigan
2016-2019	Associate Director	Cancer Control and Population Sciences, Michigan Medicine, Rogel Cancer Center
2016-2024	Research Professor and Core Faculty Member	Michigan Institute of Data Science (MIDAS) University of Michigan
2015-2018	Co-director Global Statistics Core	Office of Global Public Health University of Michigan
2015-2023	John D. Kalbfleisch Collegiate Professor of Biostatistics	Department of Biostatistics University of Michigan
2014-2024	Professor	Department of Epidemiology University of Michigan
2014-2018	Associate Chair	Department of Biostatistics University of Michigan
2013-2024	Professor	Department of Biostatistics University of Michigan
2013-2015	Associate Director University of Michigan	Cancer Biostatistics T32 Training Grant
2009-2013	Associate Professor	Department of Biostatistics University of Michigan
2008-2009	John G. Searle Assistant Professor	Department of Biostatistics University of Michigan
2006-2008	Assistant Professor	Department of Biostatistics University of Michigan
2002-2006	Assistant Professor	Department of Statistics University of Florida

OTHER EMPLOYMENT/POSITIONS

2022 Fall	Visiting by Fellow	Churchill College University of Cambridge, UK
-----------	--------------------	--

2022 Fall	Visiting Scholar	MRC Biostatistics Unit University of Cambridge, UK
2015	Short Term Visiting Researcher	Department of Biostatistics Harvard T.H. Chan School of Public Health
2010	Visiting Scholar	Institut d'Investigaci Biomdica de Bellvitge, Institut Catal d'Oncologia, Unitat de Bioestadística Bioinformtica (Recipient of a visiting scholar grant awarded by the Agency for Administration of University and Research Grants (AGAUR), Spain.
2006, 2009	Visiting Scholar	Department of Mathematics Statistics and Computer Science Victoria University Wellington, New Zealand
2006	Visitor	Division of Cancer Epidemiology and Genetics, The National Cancer Institute
2004	Visiting Scholar	Applied Statistics Unit Indian Statistical Institute Kolkata, India
2002	Visiting Scholar	Stanford University
2001 2004-2005	Visiting Assistant Professor	Department of Statistics Purdue University
1996-2001	Teaching assistant Statistical Consultant Research Assistant	Department of Statistics Purdue University
2000	Summer Intern	Statistics Division, Eli Lilly and Company Indianapolis

EDUCATION

2001	Ph.D. (Statistics) Advisor: William J. Studden Thesis Title: Optimal designs for estimating the path of a stochastic process. Purdue University, West Lafayette, Indiana.
1999	M.S (Mathematical Statistics) Purdue University, West Lafayette, Indiana.
1994-1996	M. Stat (Applied Statistics and Data Analysis) Indian Statistical Institute, Calcutta, India.
1991-1994	B.Sc. (Statistics) Presidency College, Calcutta, India.

HONORS AND AWARDS

National Scholarship, India, 1989, 1991.

Best student among Statistics majors award, Presidency College, Calcutta, 1993-1994.

Outstanding academic performance prizes, Indian Statistical Institute, Calcutta, 1994-1996.

Debesh-Kamal scholarship for studying abroad, The Ramakrishna Mission, India, 1996.

Teaching award for outstanding classroom performance, Purdue University, 1998.

Purdue Research Foundation grant, 1998-2000.

I.W.Burr award for an outstanding doctoral student, Purdue University, 2001.

New Researcher's summer fellowship, Stanford University, 2002.

Travel award, SAMSI, 2003.

Travel award, to attend conference on new directions in experimental design, 2003.

Travel award to attend New Researchers' Conference, 2003.

Travel award to attend Pathways to Future Workshop for Women, 2003.

Travel award to attend Fifth International Workshop on Objective Bayes Methodology, 2005.

Poster award, In Fifth International Workshop on Objective Bayes Methodology, 2005.

Young Investigator Grant, National Security Agency, 2005-2007.

Center for Research on Learning and Teaching faculty development award for integrating public health applications in BIOSTAT 503, University of Michigan, 2008.

John G. Searle Assistant Professorship, Awarded to an Assistant Professor with significant contribution, Department of Biostatistics, University of Michigan, 2008-2009

Elizabeth C. Crosby research award for women investigators in science, NSF ADVANCE program, The University of Michigan, 2008.

Elected Member, The International Statistical Institute, 2011.

Excellence in Teaching award, Awarded annually to one School of Public Health faculty member for outstanding teaching achievements, School of Public Health, University of Michigan, 2012.

Fellow of the American Statistical Association, 2012.

Outstanding Alumna Award, Department of Statistics, Purdue University, 2012.

Gilbert Whitaker Stage I grant for Improvement of Teaching, Center for Research, Learning and Teaching, University of Michigan, 2013.

Outstanding young researcher award (applications category), International Indian Statistical Association (IISA), 2014.

Faculty Recognition Award for outstanding contribution by a mid-career faculty: University-wide award presented by the Rackham Graduate School and Office of the Provost at the University of Michigan. 2015.

John D. Kalbfleisch Collegiate Professorship, University of Michigan, 2015.

Gilbert Whitaker grant for Improvement of Teaching. Center for Research, Learning and Teaching, University of Michigan, 2015.

Gertrude Cox Award, Washington Statistical Society, 2016.

Elected Senior Fellow, Michigan Society of Fellows, 2016. <http://societyoffellows.umich.edu>

Fellow, American Association for the Advancement of Science, 2017.

Rackham Distinguished Faculty Achievement Award, University of Michigan, 2018.

Fellow, Executive Leadership for Women in Academic Medicine (ELAM), 2018-2019.

[Rogel Scholar Award](#), University of Michigan Rogel Cancer Center, 2019.

L. Adrienne Cupples Award, Boston University School of Public Health, 2020.

Distinguished Woman Scholar Award, Purdue University, 2021.

20th Annual Janet L. Norwood Award, The University of Alabama at Birmingham, 2021.

20th Myra Samuels Memorial Lecture and Award, Department of Statistics, Purdue University, 2022.

Sarah Goddard Power Award, Academic Women's Caucus, University of Michigan, 2022.

Visiting By Fellow, Churchill College, University of Cambridge, UK, Fall, 2022.

Elected Member of the US National Academy of Medicine, 2022.

Karl E. Peace Award for betterment of Society, American Statistical Association, 2023.

Sacks Award, National Institute of Statistical Sciences, 2023.

2023 Data for Good Challenge in Biostatistics, Amstat News with the American Statistical Association, 2023.

John D Kalbfleisch Distinguished University Professorship, University of Michigan, 2023.

Siobán D. Harlow Collegiate Professor of Public Health, University of Michigan, 2023.

Distinguished Alumna in College of Science Award, Purdue University, 2024.

Marvin Zelen Leadership Award in Statistical Science, Harvard University, 2024.

David A. Sprott Lectureship, Department of Statistics, University of Waterloo, 2024.

Anna MR Lauder Professorship, Department of Biostatistics, Yale University, 2024.

PROFESSIONAL ACTIVITY

Editorial Boards:

Statistics Editor, *The American Journal of Preventive Medicine*, 2013-2014.

Associate Editor, *Statistics in Medicine*; 2015-2018.

Associate Editor, *Biometrics*; 2008-2018.

Associate Editor, *The American Statistician*; 2008-2011.

Associate Editor, *Journal of Statistical Planning and Inference*; 2012-2014.

Editorial Board Member, *Sankhya, Ser B*; 2008-2012.

Editorial Board Member, *International Statistical Review*; 2011-2015.

Editorial Board Member, *Epidemiologic Methods*; 2011-2018.

Editorial Board Member, *Genetic Epidemiology*; 2011-.

Editorial Board Member, *Harvard Data Science Review*; 2018-2021.

Editorial Board Member, *Science Advances*, 2021-

Editor in Chief, *Springer Book Series "Indian Statistical Institute Series"*. 2024-

Guest Editor, Genetics & G3 special issue on Biobank Data Analysis, 2024.

Reviewer for the following journals:

The Annals of Statistics, Biometrika, Statistical Methodology, Journal of Statistical Planning and Inference, Journal of American Statistical Association, Biometrics, Statistica Sinica, The Scandinavian Journal of Statistics, Geoderma, Human Heredity, Statistics in Medicine, Computational Statistics and Data Analysis, PNAS, BMC Medical Research Methodology, Epidemiologic Perspective and Innovation, Lifetime Data Analysis, Communications in Statistics, Journal of the National Cancer Institute, Genetic Epidemiology, Journal of Biopharmaceutical Statistics, Annals of Human Genetics, Epidemiology, European Journal for Human Genetics, The Annals of Applied Statistics, Epidemiologic Method, Bioinformatics, Biostatistics, Genome Medicine, The American Journal of Epidemiology, IEEE Transactions on Computational Biology and Bioinformatics, PLoS One, PLoS Medicine, PLoS Genetics, Journal of Medical Genetics, Journal of Clinical Oncology, Statistics in the Biosciences, Journal of Agricultural Biological and Environmental Statistics, Environmental Research, Indian Journal of Medical Research, The American Journal of Human Genetics, The British Journal of Cancer, Science, Nature Genetics, Nature Communications, Nature Human Behavior, Science Advances, Nature, JAMA, New England Journal of Medicine

Study Section and Grant Review Panel:

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, June 16-17, 2009.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, March 1-3, 2010.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, January 24-26, 2011.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, February 2-3, 2012.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, October 3-4, 2012.

Grant Review Panel, National Science Foundation, Division of Mathematical Sciences, 2012.

Special Emphasis Review Panel, NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) Study Section, June 24-26, 2013.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, December 10-11, 2013.

Invited Reviewer: Health Effects Institute Project Report, 2014, 2015.

Review panel for U54: Big Data to Knowledge Centers of Excellence, NIH, April 10-11, 2014.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, May 22-23, 2014.

Reviewer, Strategic Skills Fellowship Panel, Medical Research Council, UK, 2014.

Grant Review Panel, National Science Foundation, Division of Mathematical Sciences, 2014.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, Jan 27-29, 2015.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, October 15-16, 2015.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, June 8, 2016.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, October 5, 2016.

Special Emphasis Review Panel, BD2K K07/K22 Training Grants, October 25, 2016.

External Review Committee, Biostatistics and Computational Biology Branch, Division of Intramural Research at NIEHS, November 13-15, 2016.

NIEHS R35 Review Panel: Research Triangle Park, April 6, 2017.

Cancer Immunology Trial Network Review, NCI, May, 2017.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, NCI, June 7-8, 2017.

Statistics Review Panel: Division of Mathematical Statistics, The National Science Foundation, February 14-16, 2018.

Cancer, Heart, Sleep Epidemiology Panel (B): NIH, October 25-26, 2018.

Early Stage Postdoctoral Career Development Review Committee, NIH/NCI, June, 2019.

Special Emphasis Panel: Review of NIGMS R25 Innovative Programs to Enhance Research Training (IPERT) Applications, NIH/NIGMS, July, 2019.

Specialized Programs of Research Excellence (SPOREs) (P50) III Review Committee, NIH/NCI, January, 2020.

Special Emphasis Review Panel, Cancer Prevention, Control and Population Sciences, P01 grants, NIH/NCI, February, 2020.

Statistics Review Panel, The National Science Foundation, October 26-28, 2020.

Special Emphasis Review Panel, National Cancer Institute, Big Data IT for Cancer Research, November 5-6, 2020.

Biostatistical Methods and Research Design (BMRD) Study Section, NIH December 10, 2020.

Special Emphasis Review Panel, Information Technology in Cancer Research, NIH/NCI, March, 2021.

National Cancer Institute, Biostatistics Branch Site Visit, May 2022.

National Cancer Institute, Program Project P01 Review Meeting, June 2022.

National Cancer Institute Special Emphasis Panel, NCI ZCA1 RTRB-R (J1) Transition Career Development Award and Institutional Research Training Grants, National Cancer Institute, 2023.

National Science Foundation Statistics Grant Review Panel, National Science Foundation, 2023.

PCORI 23C2 Improving Methods Merit Review Panel, PCORI, 2023.

NIGMS Review of Applications for Innovative Programs to Enhance Research Training (IPERT) (R25), MOSAIC (UE5), and Conference (R13), National Institutes of Health, 2024.

Statistics Panel of the National Science Foundation Division of Mathematical Sciences Grant Review Panel, National Science Foundation, 2024.

Standing Member, NIGMS Training and Workforce Development Panel, 2024-2025.

Federal Advisory Committee:

National Institute of Environmental Health Sciences, Environmental Health Sciences Review Committee, 2015-2018.

National Academies of Sciences, Engineering and Medicine: Committee on Inorganic Arsenic, 2015.

National Academies of Sciences, Engineering and Medicine: Review Panel on IOM Vitamin D intake report, 2017.

National Academies of Sciences, Engineering and Medicine: Workshop on Envisioning Data Science Training for Undergraduates, 2017.

National Academies of Sciences, Engineering and Medicine Committee on Rising Midlife Mortality Rates and Socioeconomic Disparities, 2019-2020.

National Academies of Sciences, Engineering and Medicine: Emerging Advances in Artificial Intelligence for Environmental Research and Decisions: A Workshop, 2019. (Workshop participant and member of the planning committee).

Appointed Member, Health Effects Institute- Energy Research Committee, 2019-2020.

National Academies of Sciences, Engineering and Medicine: Committee on Reassessment of the Department of Veterans Affairs Airborne Hazards and Open Burn Pit Registry, 2020-2022.

National Academies of Sciences, Engineering and Medicine: Committee on Applied and Theoretical Statistics (CATS) 2021-.

National Academies of Sciences, Engineering and Medicine Committee on Utilizing Advanced Environmental Health and Geospatial Data and Tech to Inform Community Investment, 2023-

National Academies of Sciences, Engineering and Medicine Committee on Toxic Exposures Effect of Mental Health of Veterans, National Academy of Medicine, 2024-

External Advisory Committee, Steering Committee, Executive Committee, Mentoring Committee, and Consultant:

Scientific Advisory for Analysis Committee, Colorectal Cancer GWAS Consortium (GECCO), PI Ulrike Peters, The Fred Hutchinson Cancer Research Center, 2010.

American Chemistry Council Working Group on Biomarker Discovery, organized by NIH/NICHD. Lead Coordinators: Paul S. Albert and Enrique Schisterman, Division of Biostatistics and Epidemiology, NICHD, 2010-11

Steering committee member, Robert Wood Johnson Health and Society Scholars Program, 2011-13.

Executive committee, NIEHS P30 center on "Lifestage exposure and adult diseases", University of Michigan, Department of Environment Health Sciences, 2011-15.

External member, Junior faculty mentoring program, Division of Family Medicine and Public Health Sciences, Wayne State University, 2013-2016.

External advisory board (EAB) member, [NIEHS-supported Superfund Research Program](#) at University of New Mexico, 2018-2019.

External advisory board (EAB) member, [NIEHS-supported Superfund Research Program](#) at Columbia University, 2018-.

External Review Committee, Department of Biostatistics, Yale University, December 2020.

External advisory board (EAB) member, Indiana University Simon Comprehensive Cancer Center, 2020-2023.

External Review Committee, Statistical Sciences at Academia Sinica, Taiwan, August, 2021.

World Health Organization (WHO) and the United Nations Department of Economic and Social Affairs (UN DESA): Technical Advisory Group on COVID-19 Mortality Assessment, September 2021-

External advisory board (EAB) member, Koita Centre for Digital Health, IIT Bombay, December 2021-

Joint Selection Committee for Recruitment of Statisticians in the Theoretical Statistics and Mathematics Division (TSMD) and Applied Statistics Division (ASD) of the Indian Statistical Institute (ISI) April 2022.

External Academic Program Review Committee, Department of Statistics, Texas A&M University, April 2022.

Fred Hutchinson, University of Washington, Seattle Children's Cancer Consortium, External Advisory Board Member, 2022-.

Observation and Safety Monitoring Board Member, Heartshare: Accelerating Medicines Partnership, Northwestern University, Chicago, Illinois, 2022-

Advisory Committee Koita Centre for Digital Health (KCDH-A), Ashoka University, India, 2023-

Steering Committee Member, LSHTM Centre for Data and Statistical Science for Health (DASH), London School of Hygiene & Tropical Medicine, University of London, UK, 2024-

External Advisory Board Member, Ethics Committee of Kolkata Municipal Corporation Health Department, Kolkata, India, 2024-

External Academic Program Review Committee, North Carolina State University Statistics Department Departmental Review, April 2024.

PROFESSIONAL MEMBERSHIP

American Statistical Association (ASA) (Member of Sections on Epidemiology, Bayesian Statistics, Environmental Statistics, Statistical Genetics, Biometrics, Teaching Statistics in Health Sciences and Nonparametric Statistics)

Institute of Mathematical Statistics (IMS)

International Indian Statistical Association (IISA)

International Biometric Society (ENAR)

International Statistical Institute (ISI)

American Association for Advancement of Science (AAAS)

American Society for Clinical Oncology (ASCO), 2016-2019.

PUBLICATIONS (Peer Reviewed)

*The first author was a graduate student of Dr. Mukherjee at the time of this research.

**Co first-author stated in the manuscript.

1. Bose M, **Mukherjee B**. Cross-over design in the presence of higher order carry overs. *Australian and New Zealand Journal of Statistics*, **42**:235-44, 2000.
2. **Mukherjee B**. Exactly optimal sampling designs for processes with a product covariance structure. *The Canadian Journal of Statistics*, **31**:1-19, 2003.
3. Bose M, and **Mukherjee B**. Cross-over designs under a general model. *Statistics and Probability Letters*, **62**:413-18, 2003.
4. **Mukherjee B**. On sampling designs for estimating the integral of a stochastic process. *Communications in Statistics, Theory and Methods*, **32**:1647-63, 2003.
5. Sinha S, **Mukherjee B** and Ghosh M. Bayesian analysis of matched case-control studies with multiple disease states. *Biometrics*, **60**:41-49, 2004.
6. *Sinha S, **Mukherjee B**, Ghosh M, Mallick BK, and Raymond JC. Bayesian semi-parametric analysis of matched case-control studies with missing exposure. *Journal of the American Statistical Association*, **100**:591-601, 2005. (*This paper received one of the ENAR student paper awards in 2004*).
7. Ghosh M, and **Mukherjee B**. Non-parametric sequential Bayes estimation of the distribution function. *Sequential Analysis*, **24**:389-409, 2005.
8. **Mukherjee B**, Sinha S, and Ghosh M. Bayesian Analysis for case-control studies. In Handbook of Statistics, Vol 25. *Bayesian Thinking: Modeling and Computation*, Eds Dey, D. and Rao, C. R., 793-819, 2005.
9. Ghosh M, Zhang L, and **Mukherjee B**. Equivalence of posteriors in the Bayesian analysis of the multinomial-Poisson transform. *Metron*, **64**:19-28, 2006.
10. Sinha S, and **Mukherjee B**. A score test for determining sample size for a matched case-control study with categorical exposure. *Biometrical Journal*, **48**:35-53, 2006.
11. **Mukherjee B**. A note on sampling designs for random processes with no quadratic mean derivative. *Australian and New Zealand Journal of Statistics*, **48**:305-19, 2006.
12. Ghosh YN, and **Mukherjee B**. On properties of conditional medians and quantiles. *Statistics and Probability Letters*, **76**(16):1775-80, 2006.
13. Ghosh M, and **Mukherjee B**. Data adaptive sequential design for case-control studies. *Statistica Sinica*, **16**(3):697-719, 2006.
14. *Zhang L, **Mukherjee B**, Ghosh M, and Wu R. Accounting for population substructure in case-control studies of disease-gene association: A Bayesian approach. *Statistical Modeling*, **6**(4):352-72, 2006.
15. Khuri A, **Mukherjee B**, Sinha B, and Ghosh M. Design issues for generalized linear models. *Statistical Science*, **21**(3):376-99, 2006.

16. **Mukherjee B**, Zhang L, Ghosh M, and Sinha S. Semiparametric Bayesian analysis of case-control data under conditional gene-environment independence. *Biometrics*, **63**(3):834-844, 2007, PMID: 17489972.
17. **Mukherjee B**, Liu I, and Sinha S. Analysis of Matched case-control data with ordinal disease states: possible choices and comparisons. *Statistics in Medicine*, **26**(17):3240-3257, 2007, PMID: 17206600.
18. *Sinha S, **Mukherjee B**, and Ghosh M. Modeling association among multivariate exposures in a matched case-control study. *Sankhya*, **64**(3):379-404, 2007.
19. Dorazio RM, **Mukherjee B**, Zhang L, Ghosh M, Jelks H, and Jordan F. Modeling Unobserved Sources of Heterogeneity in Animal Abundance Using a Dirichlet Process Prior. *Biometrics*, **64**(2):635-644, 2008, PMID: 17680831.
20. *Zhang L, **Mukherjee B**, Ghosh M, Gruber S and Moreno V. Accounting for error due to misclassification exposures in case-control studies of gene-environment interaction. *Statistics in Medicine*, **27**(15):2756-2783, 2008, PMID: 17879261.
21. **Mukherjee B** and Chatterjee N. Exploiting gene-environment independence for analysis of case-control studies: An empirical-Bayes type shrinkage estimator to trade off between bias and efficiency. *Biometrics*, **64**(3):685-694, 2008, PMID: 18162111. (*This paper appeared in a special Virtual Issue of 15 classic papers in Biometrics which was put together to celebrate the international year of statistics in 2013 by Wiley.*)
22. Chatterjee N, and **Mukherjee B**. Statistical approaches to studies of gene-gene and gene-environment Interactions. *Molecular Epidemiology in Cancer*, 145-69 Editors Rebbeck, Ambrosone and Shields, *Informa Healthcare*, 2008.
23. Liu I, and **Mukherjee B**. The Proportional Odds Model. *Wiley Encyclopedia for clinical trials*. 1-8, 2008.
24. **Mukherjee B**, Ahn J, Rennert G, Gruber SB, Moreno V, and Chatterjee N. Testing gene-environment interaction from case-control data: A novel study of Type-1 error, power and designs. *Genetic Epidemiology*, **32**(7):615-626, 2008, PMID: 18473390.
25. Sinha S, Gruber SB, **Mukherjee B** and Rennert G. Inference on haplotype effects in matched case-control studies using unphased genotype data. *International Journal of Biostatistics*, **4**(1): article 6, 2008, PMCID: PMC2835450.
26. **Mukherjee B**, Ahn J, Liu I, Rathouz P, and Sanchez B. On elimination of nuisance parameters in a stratified proportional odds model by amalgamating conditional likelihoods. *Statistics in Medicine*, **27**(24):4950-4971, 2008, PMCID: PMC3085191.
27. Aguado A, Guino E, **Mukherjee B**, Sicras A, Serrat J, Acedo M, Ferro JJ, and Moreno V. Variability in prescription drug expenditures explained by adjusted clinical groups (ACG) case-mix. A cross-sectional study of patient electronic records in primary care. *BMC Health Services Research*, **8**:53, 2008, PMCID: PMC2292169.
28. Polydorides AD, **Mukherjee B**, Gruber SB, McKenna BJ, Appelman HD, and Greenson JK. Adenoma-Infiltrating Lymphocytes (AILs) Are a Potential Marker of Hereditary Non-Polyposis Colorectal Cancer. *American Journal of Surgical Pathology*, **32**(11):1661-1666, 2008, PMCID: PMC3500084.

29. Lampe BJ, Park SK, Robins T, **Mukherjee B**, Litonjua AA, Amarasiriwardena C, Sparrow D, Hu H. Association between 24-Hour Urinary Cadmium and Pulmonary Function: The VA Normative Aging Study. *Environmental Health Perspective*, **116**(9):1226-1230, 2008, PMCID: PMC2535626.
30. **Mukherjee B** and Liu I. A note on bias due to fitting prospective multivariate generalized linear models to categorical outcomes ignoring retrospective sampling schemes. *Journal of Multivariate Analysis*, **100**(3):459-472, 2009. PMCID: PMC8240662.
31. Liu I, **Mukherjee B**, Suesse T, Sparrow D and Park SK. Graphical model-checking methods for the proportional odds model. *Statistics in Medicine*, **28**(3):412-429, 2009, PMID: 18693299.
32. Zhang L, **Mukherjee B**, Hu B, Moreno V, and Cooney K. Semiparametric Bayesian modeling of random genetic effects in family based association studies. *Statistics in Medicine*, **28**(1):113-139, 2009, PMCID: PMC2684653.
33. Luo S, **Mukherjee B**, Chen J, and Chatterjee N. Shrinkage estimation for robust and efficient screening of HWE in genomewide association studies. *Genetic Epidemiology*, **33**(8):740-750, 2009, PMCID: PMC3103068.
34. Ghosh M, **Mukherjee B** and Santra U. Probability matching priors for ratio of variances of the bivariate normal distribution. *The International Journal of Statistical Sciences*, **9**:255-271, 2009.
35. *Ahn J, **Mukherjee B**, Banerjee M and Cooney K. Bayesian inference for the stereotype regression model: Application to a case-control study of prostate cancer. *Statistics in Medicine*, **28**(25):3139-3157, 2009, PMCID: PMC3103066.
36. Gruber SB, and **Mukherjee B**. Anticipation in Lynch syndrome: Still waiting for the answer. *Journal of Clinical Oncology*, **27**(3):326-327, 2009, PMID: 19075261.
37. Vilar E, **Mukherjee B**, Kuick R, Raskin L, Misek D, Taylor JMG, Giordano TJ, Hanash SM, Fearon ER, Rennert G, and Gruber SB. Gene Expression Patterns in Mismatch Repair-Deficient Colorectal Cancers Highlight the Therapeutic Role of Inhibitors of the PI3K-AKT-mTOR pathway. *Clinical Cancer Research*. **15**(8):2829-2839, 2009, PMCID: PMC3425357.
38. D'Souza J, Jia C, **Mukherjee B** and Batterman S. Determinants of VOC exposures: The Importance of Ethnicity, Housing and Personal Factors. *Atmospheric Environment*, **43**(18):2884-92, 2009.
39. Batterman S, Eisenberg J, Hardin R, Kruk M, Lemos MC, Michalak A, **Mukherjee B**, Renne E, Stein H, Watkins C, Wilson M. Sustainable Control of Water-Related Infectious Diseases: A Review and Proposal for Interdisciplinary Health-Based Systems Research. *Environmental Health Perspectives*, **117**(7):1023-32, 2009, PMCID: PMC2717125.
40. Stoffel E, **Mukherjee B**, Raymond VM, Tayob N, Kastrinos F, Sparr J, Wang F, Bandipalliam P, Syngal S, Gruber SB. Calculation of Risk of Colorectal and Endometrial Cancer Among Patients with Lynch Syndrome. *Gastroenterology*, **137**(5):1621-27,2009, PMCID: PMC2767441.
41. Park SK, **Mukherjee B** , Xia X, Sparrow D, Weisskopf M, Nie H, Hu H. Bone Lead Level Prediction Models and Their Application to Examining the Relationship of Lead Exposure and Hypertension in the Third National Health and Nutrition Examination Survey. *Journal of Occupational and Environmental Medicine*, **51**(12):1422-1436, 2009, PMCID: PMC2939477.
42. Kastrinos F, **Mukherjee B**, Tayob N, Sparr J, Raymond VM, Wang F, Bandipalliam P, Stoffel EM, Gruber SB, Syngal S. The Risk of Pancreatic Cancer in Families with Lynch Syndrome. *Journal of the American Medical Association*, **302**(16):1790-1795, 2009, PMCID: PMC4091624.

43. Ghosh M, **Mukherjee B**, Santra U, and Kim. Probability matching priors for correlation coefficient of a bivariate normal distribution. *The Journal of Statistical Planning and Inference*, **140**(6):1410-16, 2010.
44. Ghosh M and **Mukherjee B**. Bayesian analysis of matched pair data. In *Frontiers of Statistical Decision Making and Bayesian Analysis*, 430-45, Co-Editors: Ming-Hui Chen, Dipak K. Dey, Peter Mueller, Dongchu Sun, and Keying Ye, Springer-Verlag, 2010.
45. **Mukherjee B**, Ahn J, Gruber SB, Ghosh M, and Chatterjee N. Case-Control Studies of Gene-Environment Interaction: Bayesian design and analysis. *Biometrics*, **66**(3):934-948, 2010, PMID: PMC3103064.
46. *Boonstra PS, Gruber SB, Raymond V, Huang SC, Timshel S, Nilbert M, **Mukherjee B**. A review of statistical methods for testing genetic anticipation: looking for an answer in Lynch syndrome. *Genetic Epidemiology*, **34**(7):756-768, 2010, PMID: PMC3894615.
47. Zhang A, Park SK, Wright RO, Weisskopf MG, **Mukherjee B**, Nie H, Sparrow D, Hu H. The HFE H63D Polymorphism as a Modifier of the Impact of Cumulative Lead Exposure on Pulse Pressure: the Normative Aging Study. *Environmental Health Perspectives*, **118**(9):1261-1266, 2010, PMID: PMC2944087.
48. Borrás E, Pineda M, Blanco I, Jewett EM, Wang F, Teule A, Caldes T, Urioste M, Martínez-Bouzas C, Brunet J, Balmana J, Torres A, Cajal TR, Sanz J, Pérez-Cabornero L, Castellvi-Bel S, Gonzalez S, Moreno V, Gruber SB, **Mukherjee B**, Rosenberg N, Lazaro C, Capella G. Identification of the first MLH1 founder mutations in Spanish Lynch syndrome families. *Cancer Research*, **70**(19): 7379-7391, 2010, PMID: 20858721.
49. Park SK, Elmarsafawy S, **Mukherjee B**, Spiro A, Vokonas PS, Nie H, Weisskopf M, Schwartz J, Hu H. Cumulative Lead Exposure and Age-related Hearing Loss: The VANormative Aging Study. *Hearing Research*, **269**(1-2): 48-55, 2010, PMID: PMC2934752.
50. *Ahn J, **Mukherjee B**, Gruber SB, and Sinha S. Missing Exposure Data in Stereotype Regression Model: Application to Matched Case-Control Study with Disease Subclassification. *Biometrics*, **67**(2):546-58, 2011, PMID: PMC3119773.
51. *Boonstra PS, **Mukherjee B**, Taylor JMG, Nilbert M, Moreno VM, and Gruber SB. Bayesian Modeling for Genetic Anticipation in Presence of Mutational Heterogeneity: A Case-Study in Lynch Syndrome. *Biometrics*, **67**(4):1627-1637, 2011, PMID: PMC3176998.
52. Samadder NJ, **Mukherjee B**, Huang SC, Ahn J, Rennert H, Greenon J, Rennert G, and Gruber SB. Risk of Colorectal Cancer in Self-Reported Inflammatory Bowel Disease and Modification of Risk by Statin and NSAID Use. *Cancer*, **117**(8):1640-1648, 2011, PMID: PMC3117060.
53. Roy A, Hu H, Bellinger DC, **Mukherjee B**, Modali R, Nasaruddin K, Schwartz J, Wright RO, Ettinger AS, Palaniapan K, and Balakrishnan K. Hemoglobin, Lead Exposure, and Intelligence Quotient: Effect Modification by the DRD2 Taq IA Polymorphism. *Environmental Health Perspective*, **119**(1):144-49, 2011, PMID: PMC3018494.
54. **Mukherjee B**, Ou H, Wang F, and Erickson S. A new co-morbidity index: the health-related quality of life comorbidity index. *The Journal of Clinical Epidemiology*, **64**(3):309-319, 2011, PMID: 21147517.
55. Rohr AC, Kamal AS, Morishita M, **Mukherjee B**, Keeler GJ, Harkema JR, and Wagner JG. Altered Heart Rate Variability in Spontaneously Hypertensive Rats is Associated with Specific Particulate Matter Components in Detroit, Michigan. *Environmental Health Perspectives*, **119**(4):474-480, 2011, PMID: PMC3080928.

56. Vilar E, Bartnik CM, Raskin L, Ahn J, Moreno V, **Mukherjee B**, Rennert G, and Gruber SB. MRE11 deficiency increases sensitivity to poly(ADP-ribose) polymerase inhibition in microsatellite unstable colorectal cancers. *Cancer Research*, **71**(7):2632-2642, 2011, PMCID: PMC3407272.
57. **Mukherjee B**, Rennert G, Ahn J, Dishon S, Lejbkowitz F, Rennert H, Shirovitz S, Moreno V, Gruber SB. High Risk of Colorectal and Endometrial Cancer in Ashkenazi families with the MSH2 A636P founder mutation. *Gastroenterology*, **140**(7):1919-1926, 2011, PMCID: PMC4835182.
58. Kamal AS, Rohr A, **Mukherjee B**, Morishita M, Keeler GJ, Harkema JR and Wagner JG. PM2.5 induced changes in cardiac function of hypertensive rats depend on wind direction and specific sources in Steubenville, Ohio. *Inhalation Toxicology*, **23**(7):417-430, 2011, PMID: 21639710.
59. Palaniappan K, Balakrishnan K, Krishnan L, **Mukherjee B**, Roy A, Hu H, Bellinger. DC, Lead Exposure and Visual-Motor Abilities in Children from Chennai, India. *Neurotoxicology*, **32**(4):465-470, 2011, PMCID: PMC3115626.
60. *Li S, Batterman S, Wirth J, Wasilevich B, Wahl R, Su FC, **Mukherjee B**. Association of daily asthma emergency department visits and hospital admissions with ambient air pollutants among the pediatric Medicaid population in Detroit: Time series and time-stratified case-crossover analyses with threshold effects. *Environmental Research*, **111**(8): 1137-1147, 2011, PMID: 21764049.
61. Li S, Elasaad H, Batterman S, Wahl R, Wasilevich E, **Mukherjee B**. Asthma exacerbation and proximity of residence to major roads: a population-based matched case-control study among the pediatric Medicaid population in Detroit, Michigan. *Environmental Health*, **10**:34, 2011, PMCID: PMC3224543.
62. Choi YH, Hu H, Tak S, **Mukherjee B**, Park SK. Occupational Noise Exposure Assessment using O*NET and Its Application to a Study of Hearing Loss in the US General Population. *Journal of Occupational and Environmental Medicine*, **69**(3): 176-83, 2011, PMCID: PMC3277688.
63. Su FC, **Mukherjee B**, Batterman S. Trends of VOC Exposures among a Nationally Representative Sample: Analysis of the NHANES 1988 through 2004 Data Sets. *Atmospheric Environment*, **45**(28): 4858-4867, 2011, PMCID: PMC4335682.
64. Ou H, **Mukherjee B**, Erickson SR, Piette JD, Bagozzi RP, Balkrishnan R. Comparative Performance of Comorbidity Indices in Discriminating Health related Behaviours and Outcomes. *Health Outcomes Research in Medicine*, **2**(2):e91-e104, 2011.
65. **Mukherjee B**, Ahn J, Gruber SB, and Chatterjee N. Testing gene-environment interaction in large-scale association studies: possible choices and comparison. *American Journal of Epidemiology*, **175**(3):177-190, 2012, PMCID: PMC3286201. Discussion paper with invited commentary.
66. **Mukherjee B**, Ahn J, Gruber SB, and Chatterjee N. Rejoinder to GE-Whiz! Ratcheting Gene-Environment studies up to the Whole Genome and Whole Exposome by Thomas D.C. et al. *The American Journal of Epidemiology*, **175**(3): 190, 2012, PMCID: PMC3261438.
67. Bhadra D, Kim SD, Daniels MJ, Ghosh M, and **Mukherjee B**. A Bayesian semiparametric approach for incorporating longitudinal information on exposure history for inference in case-control studies. *Biometrics*, **68**(2):361-370, 2012, PMCID: PMC3935236. (This paper received the SBSS student paper award).

68. Sanchez BN, Kang S, **Mukherjee B**. A latent variable approach to study gene-environment interactions in the presence of multiple correlated predictors. *Biometrics*, **68**(2):466-476, 2012, PMID: PMC4405908.
69. VanderWeele TJ, **Mukherjee B**, and, Chen J. Sensitivity analysis for interactions under unmeasured confounding. *Statistics in Medicine*, **31**(22):2552-2564, 2012, PMID: PMC4226658.
70. Zhang Z, Liu A, Lyles RH, **Mukherjee B**. Logistic regression analysis of biomarker data subject to pooling and dichotomization. *Statistics in Medicine*, **31**(22):2473-2484, 2012, PMID: 21953741.
71. Chen J, Kang G, VanderWeele TJ, Zhang C, **Mukherjee B**. Efficient Designs of Gene-Environment Interaction Studies: Implications of Hardy-Weinberg Equilibrium and Gene-Environment Independence. *Statistics in Medicine*, **31**(22):2516-2531, 2012, PMID: PMC3448495.
72. Lyles RH, Tang L, Lin J, Zhang Z, and **Mukherjee B**. Likelihood-based Methods for Regression Analysis with Binary Exposure Status Assessed by Pooling. *Statistics in Medicine*, **31**(22):2485-2497, 2012, PMID: PMC3528351.
73. **Mukherjee B**, Ko YA, VanderWeele TJ, Roy A, Park SK, Chen J. Principal interactions analysis for repeated measures data: Application to gene-gene, gene-environment interaction. *Statistics in Medicine*, **31**(22):2531-51, 2012, PMID: PMC4046647.
74. Ghosh M, Song J, Forster J, Mitra R, and **Mukherjee B**. On the equivalence of posterior inference based on prospective and retrospective likelihoods. *Statistics in Medicine*, **31**(20):2196-2208, 2012, PMID: 22495822.
75. *Li S, **Mukherjee B** and Batterman S. Point source modeling of matched case-control data with multiple disease sub-types. *Statistics in Medicine*, **31**(28):3617-3637, 2012, PMID: PMC4331356.
76. **Mukherjee B**, DeLancey JO, Raskin L, et al. Risk of Non-Melanoma Cancers in CDKN2A Mutation Carriers. *The Journal of the National Cancer Institute*, **104**(12):953-956, 2012, PMID: PMC3379723.
77. Markovitz AR, Goldstick JE, Levy K, Cevallo W, **Mukherjee B**, Trostle JA, Eisenberg JNS. Where science meets policy: Comparing longitudinal and cross-sectional designs to address diarrheal disease burden in the developing world. *The International Journal of Epidemiology*, **41**(2):504-513, 2012, PMID: PMC3324455.
78. Ou H, **Mukherjee B**, Erickson SR, Piette JD, Bagozzi RP, Balkrishnan R. Comparative Performance of Comorbidity Indices in Predicting Healthcare related Behaviours and Outcomes among Medicaid Enrollees with Type-2 Diabetes. *Population Health Management*, **15**(4):220-29, 2012, PMID: PMC4346539.
79. Batterman S, Du L, Mentz G, **Mukherjee B**, Parker E, et al. Particulate matter concentrations in residences with and without stand-alone filters and air conditioners. *Indoor Air*, **22**(3):235-252, 2012, PMID: PMC4233141.
80. Choi Y, Hu H, **Mukherjee B**, Miller J, Park SK. Environmental Cadmium and Lead Exposures and Hearing Loss in US Adults: the National Health and Nutrition Examination Survey, 1999 to 2004. *Environmental Health Perspective*, **120**(11):1544-50, 2012, PMID: PMC3556613.
81. Lewis TC, Henderson TA, Carpenter AR, Ramirez IA, McHenry CL, Goldsmith AM, Ren X, Mentz GB, **Mukherjee B**, Robins TG, Joiner TA, Mohammad LS, Nguyen ER, Burns MA, Burke DT, Hershenon MB. Nasal cytokine responses to natural colds in asthmatic children. *Clinical and Experimental Allergy*, **42**(12): 1734-44, 2012, PMID: PMC4219353.

82. Mentz G, Schulz A, **Mukherjee B**, Ragunathan TE, White-Perkins D, and Israel B. Hypertension: Comparison of self-reported data on hypertension and measured blood pressure in a tri-ethnic community. *BMC Health Services Research*, 12:312, 2012, PMID: PMC3483283.
83. *Boonstra PS, Taylor JMG, and **Mukherjee B**. Incorporating auxiliary information for improved prediction in high dimensional datasets: An ensemble of shrinkage approaches. *Biostatistics*, 14(2):259-272, 2013, PMID: PMC3590922.
84. *Ahn J, **Mukherjee B**, Ghosh M, and Gruber SB. Bayesian semiparametric analysis of two-phase studies of gene-environment interaction. *The Annals of Applied Statistics*, 7(1):543-69, 2013, PMID: PMC3935248.
85. VanderWeele TJ, Ko YA, and **Mukherjee B**. Effect of environmental confounding on joint tests of genetic association. *American Journal of Epidemiology*, 178(1):144-152, 2013, PMID: PMC3698991.
86. *Ko YA, Chaudhuri PS, Vokonas PS, Park SK, **Mukherjee B**. Novel Likelihood Ratio Tests for Screening Gene-Gene and Gene Environment Interactions with Unbalanced Repeated-Measures Data. *Genetic Epidemiology*, 37(6):581-591, 2013, PMID: PMC4009698.
87. *Boonstra PS, **Mukherjee B** and Taylor JMG. Bayesian shrinkage methods for partially observed high-dimensional data. *The Annals of Applied Statistics*, 7(4):2272-2292, 2013, PMID: PMC3891514.
88. *Li S, **Mukherjee B**, Batterman S, and Ghosh M. Bayesian analysis of time-series data under case-crossover designs: posterior equivalence and inference. *Biometrics*, 69(4):925-936, 2013, PMID: PMC4108592. (This paper received one of the ENAR student paper awards in 2013).
89. Raymond VM, **Mukherjee B**, Wang F, Huang S, Stoffel EM, Kastrinos F, Syngal S, Cooney KA, Gruber SB. Elevated Risk of Prostate Cancer Among Men with Lynch Syndrome. *Journal of Clinical Oncology*, 31(14):1713-8, 2013, PMID: PMC3641694. Discussion paper with editorial commentary.
90. Lewis TC, Robins TG, Mentz GB, Zhang X, **Mukherjee B**, Lin X, Dvonch JT, Keeler GJ, Yip FY, O'Neill MS, Parker EA, Israel BA, Max PT, Reyes A. Community Action Against Asthma (CAAA) Steering Committee. Air pollution and respiratory symptoms among children with asthma: vulnerability by measures of asthma severity and residence area. *Science of the Total Environment*, 448:48-55, 2013, PMID: PMC4327853.
91. Sun Z, **Mukherjee B**, Brook RD, Gatts GA, Yang F, Fan Z, Brook JR, Sun Q, Rajagopalan S. Air-Pollution and Cardiometabolic Diseases (AIRCMD): A Prospective Study Investigating the Impact of Air Pollution Exposure and Propensity for Type II Diabetes. *Science of the Total Environment*, 448:72-78, 2013, PMID: PMC4548977.
92. Johnson PI, Stapleton HM, **Mukherjee B**, Hauser R, Meeker JD. Associations between brominated flame retardants in house dust and hormone levels in men. *Science of the Total Environment*, 445-466:177-84, 2013, PMID: PMC3572297.
93. Meeker JD, Cantonwine D, Rivera-Gonzalez L, Ferguson K, **Mukherjee B**, Calafat A, Ye X, Anzalota Del Toro LV, Crespo N, Jimenez-Veleza B, Alshawabkeh A, Cordero J. Distribution, variability and predictors of urinary concentrations of phenols and parabens among pregnant women in Puerto Rico. *Environmental Science and Technology*, 47(7):3439-3447, 2013, PMID: PMC3638245.

94. Brook RD, Bard RL, Kaplan MJ, Yalavarthi S, Morishita M, Dvonch JT, Wang L, Yang HY, Spino C, **Mukherjee B**, Oral EA, Sun Q, Brook JR, Harkema J, and Rajagopalan S. The effect of acute exposure to coarse particulate matter air pollution in a rural location on circulating endothelial progenitor cells: results from a randomized controlled study. *Inhalation Toxicology*, **25**(10):587-592, 2013, PMID: PMC4364610.
95. Raskin L, Johnson TM, Fullen DR, Giordano TJ, Vinco M, Sanders D, Ahn J, **Mukherjee B**, Gruber SB. Transcriptome profiling identifies HMGA2 as a novel gene in melanoma progression and prognosis. *The Journal of Investigative Dermatology*, **133**(11): 2585-2592, 2013, PMID: PMC4267221.
96. *Li S, Batterman S, Su FC and **Mukherjee B**. Addressing extrema and censoring in pollutant and exposure data using mixture of normal distributions. *Atmospheric Environment*, **77**:464-473, 2013, PMID: PMC3857711.
97. Su FC, **Mukherjee B**, Batterman S. Determinants of personal, indoor and outdoor VOC concentrations: An analysis of the RIOPA data. *Environmental Research*, **126**:192-203, 2013, PMID: PMC4243524.
98. Poreta SR, Ko YA, Gruber SB, **Mukherjee B**, Baylin A, Ren J, and Djuric Z. Interaction of Fatty Acid Genotype and Diet on Changes in Colonic Fatty Acids in a Mediterranean Diet Intervention Study. *Cancer Prevention Research*, **6**(11):1212-21, 2013, PMID: PMC3840911.
99. *Sun Z, Tao Y, Li S, Ferguson KK, Meeker JD, Park SK, Batterman SA, **Mukherjee B**. Statistical strategies for constructing health risk models with multiple pollutants and their interactions: possible choices and comparison. *Environmental Health*, **12**(1):85, 2013, PMID: PMC3857674.
100. Du L, Batterman S, Parker E, Robins T, Lewis T, **Mukherjee B**, Ramirez E, Rowe Z, Brakefield-Caldwell W. Use of Free-standing Filters in an Asthma Intervention Study. *Air Quality Atmosphere and Health*, **6**(4):759-767, 2013, PMID: PMC3889137.
101. Boonstra PS, Bondarenko I, Park SK, Vokonas PS and **Mukherjee B**. Propensity score- based diagnostics for categorical response regression models. *Statistics in Medicine*, **33**(3):455-469, 2014, PMID: PMC3911784.
102. *Ahn J, Johnson T, Bhavnani D, Eisenberg JE, and **Mukherjee B**. A space-time point process model for analyzing and predicting case patterns of diarrheal disease in Northwestern Ecuador. *Spatial and spatio-temporal epidemiology*, **9**:23-35, 2014, PMID: PMC4044631.
103. *Li S, **Mukherjee B**, Taylor JMG, Rice KM, Wen X, Rice JD, Stringham H, Boehnke M. The role of covariate heterogeneity in meta-analysis of gene-environment interactions with quantitative traits. *Genetic Epidemiology*, **38**(5):416-429, 2014, PMID: PMC4108593.
104. *Ko YA, **Mukherjee B**, Smith J, Park SK, Kardia SLR, Allison MA, Vokonas PS, and Diez-Roux AV. Testing departure from additivity in Tukey's model using shrinkage: Application to a longitudinal setting. *Statistics in Medicine*, **33**(29):5177-5191, 2014, PMID: PMC4227925.
105. Zhu Y, Ghosh D, Mitra N, and **Mukherjee B**. A data-adaptive strategy for inverse weighted estimation of causal effects. *Health Services and Outcomes Research Methodology*, **14**(3):69-91, 2014.
106. Cantonwine DE, Cordero JF, Rivera-Gonzalez LO, Anzalota Del Toro LV, Ferguson KK, **Mukherjee B**, Calafat AM, Crespo N, Jimnez-Vlez B, Padilla IY, Alshawabkeh AN, Meeker JD. Urinary phthalate metabolite concentrations among pregnant women in Northern Puerto Rico: Distribution, temporal variability, and predictors. *Environment International*, **62**:1-11, 2014, PMID: PMC3874859.

107. Wagner JG, Allen K, Yang HY, Nan B, Morishita M, **Mukherjee B**, Dvonch JT, Spino C, Fink GD, Rajagoplan S, Sun Q, Brook RD, and Harkema JR. Cardiovascular depression in rats exposed to inhaled particulate matter and ozone: effects of diet-induced metabolic syndrome. *Environmental Health Perspective*, **122**(1):27-33, 2014, PMID: PMC3888573.
108. Su FC, **Mukherjee B**, Batterman S. Modeling and analysis of personal exposures to VOC mixtures using copulas. *Environment International*, **63**:236-245, 2014, PMID: PMC4233140.
109. Maiseyeu A, Yang HY, Ramanathan G, Yin F, Bard RL, Morishita M, Dvonch JT, Wang L, Spino C, **Mukherjee B**, Badgeley MA, Barajas-Espinosa A, Sun Q, Harkema J, Rajagopalan S, Araujo JA, Brook RD. No Effect of Acute Exposure to Coarse Particulate Matter Air Pollution in a Rural Location on High-density Lipoprotein Function. *Inhalation Toxicology*, **26**(1):23-29, 2014, PMID: PMC4445365.
110. Zhao X, Sun Z, Ruan Y, Yan J, **Mukherjee B**, Fang, Duan F, Sun L, Liang R, Lian H, Zhang S, Fang Q, Gu D, Brook JR, Sun Q, Brook RD, Rajagopalan S, Fan Z. Personal black carbon exposure influences ambulatory blood pressure: air pollution and cardio-metabolic disease (AIRCMD-China) study. *Hypertension*, **63**(4):871-877, 2014, PMID: PMC4445364.
111. Bush KF, O'Neill MS, Li S, **Mukherjee B**, Hu H, Ghosh S, Balakrishnan K. Associations between extreme precipitation and gastrointestinal-related hospital admissions in Chennai, India. *Environmental Health Perspective*, **122**(3):249-254, 2014, PMID: PMC3948034.
112. Brook R, Bard R, Morishita M, Dvonch JT, Wang L, Yang H, Spino C, **Mukherjee B**, Kaplan M, Yalavarthi S. Oral E, Ajluni N, Sun Q, Brook J, Harkema J, and Rajagopalan S. The Hemodynamic and Vascular Effects of Acute Exposure to Coarse Particulate Matter Air Pollution in a Rural Location. *Environmental Health Perspectives*, **122**(6):624-630, 2014, PMID: PMC4050508.
113. Bush KF, Fossani CL, Li S, **Mukherjee B**, Gronlund CJ and O'Neill MS. Extreme Precipitation and Beach Closures in the Great Lakes Region: Evaluating Risk among the Elderly. *International Journal of Environmental Research and Public Health* , **11**(2):2014-32, 2014, PMID: PMC3945582.
114. Ferguson KK, McElrath TF, Chen YH, **Mukherjee B**, Meeker JD. Longitudinal profiling of inflammatory cytokines and C-reactive protein during uncomplicated and preterm pregnancy. *American Journal of Reproductive Immunology*, **72**(3):326-336, 2014, PMID: PMC4573571.
115. Park SK, Tao Y, Meeker JD, Harlow S, **Mukherjee B**. Environmental Risk Score as a new tool to examine multi-pollutants in epidemiologic research: an example from the NHANES study using serum lipid levels. *PLoS ONE*, **9**(6):e98632, 2014, PMID: PMC4047033.
116. Ferguson KK, Cantonwine D, Rivera-Gonzalez LO, Loch-Carusio RK, **Mukherjee B**, Anzalota Del Toro LV, Jimenez-Velez B, Calafat AM, Ye X, Alshawabkeh AN, Cordero J, Meeker JD. Urinary phthalate metabolite associations with biomarkers of inflammation and oxidative stress across pregnancy in Puerto Rico. *Environment Science and Technology*, **48**(12):7018-7025, 2014, PMID: PMC4066910.
117. Ferguson KK, McElrath TF, Ko YA, **Mukherjee B**, Meeker JD. Variability in urinary phthalate metabolite levels across pregnancy and sensitive windows of exposure for the risk of preterm birth. *Environment International*, **70**:118-124, 2014, PMID: PMC4104181.
118. Zhang B. et al. [**Mukherjee B's** co-authorship is as a member of the Colorectal Transdisciplinary Study (CORECT).] Large-scale genetic study in East Asians identifies six new loci associated with colorectal cancer risk. *Nature Genetics*, **46**(6):533-542, 2014, PMID: PMC4068797.

119. Wang H. et al. [**Mukherjee B's** co-authorship is as a member of the Colorectal Transdisciplinary Study (CORECT).] Trans-ethnic genome-wide association study of colorectal cancer identifies a new susceptibility locus in VTI1A. *Nature Communications*, **5**:4613, 2014, PMID: PMC4180879.
120. Batterman S, Su FC, Li S, **Mukherjee B**, Jia C. HEI Health Review Committee. Personal exposure to mixtures of volatile organic compounds: modeling and further analysis of the RIOPA data. *Research Report of the Health Effects Institute*, **181**:3-63, 2014, PMID: PMC4577247.
121. Batterman S, Burke J, Isakov V, Lewis T, **Mukherjee B**, Robins T. A comparison of exposure metrics for traffic-related air pollutants: application to epidemiology studies in Detroit, Michigan. *International Journal of Environmental Research and Public Health*. **11**(9):9553-9577, 2014, PMID: PMC4199035.
122. Liu C, Fonken LK, Wang A, Maiseyeu A, Bai Y, Wang TY, Maurya S, Ko YA, Periasamy M, Dvonch T, Morishita M, Brook RD, Harkema J, Ying Z, **Mukherjee B**, Sun Q, Nelson RJ, Rajagopalan S. Central IKK β inhibition prevents air pollution mediated peripheral inflammation and exaggeration of type II diabetes. *Particle and Fibre Toxicology*, **11**:53, 2014, PMID: PMC4226918.
123. *Boonstra PS, Taylor JMG, and **Mukherjee B**. Increasing efficiency for estimating treatment-biomarker interactions with historical data. *Statistical Methods in Medical Research*, **25**(6):2959-2971, 2014, PMID: PMC5450810.
124. *Tao Y, Sanchez BN and **Mukherjee B**. Latent variable models for gene-environment interactions in longitudinal studies with multiple correlated exposures. *Statistics in Medicine*, **34**(7):1227-1241, 2015, PMID: PMC4355187.
125. *Stenzel S, Ahn J, Boonstra PS, Gruber SB, **Mukherjee B**. The impact of exposure-biased sampling designs on detection of gene-environment interactions in case-control studies with potential exposure misclassification. *European Journal of Epidemiology*. **30**(5):415-423, 2015, PMID: PMC4256150.
126. *Boonstra PS, **Mukherjee B** and Taylor JMG. A Small-Sample Choice of the Tuning Parameter in Ridge Regression. *Statistica Sinica*, **25**(3):1185-1206, 2015, PMID: PMC4790465.
127. Ferguson KK, McElrath TF, Chen YH, Loch-Caruso R, **Mukherjee B**, Meeker JD. Repeated measures of urinary oxidative stress biomarkers during pregnancy and preterm birth. *American Journal of Obstetrics and Gynecology*. **212**(2):208.e1-8, 2015, PMID: PMC4312513.
128. Morishita M, Bard RL, Wang L, Das R, Dvonch JT, Spino C, **Mukherjee B**, Sun Q, Harkema JR, Rajagopalan S, Brook RD. The characteristics of coarse particulate matter air pollution associated with alterations in blood pressure and heart rate during controlled exposures. *Journal of Exposure Science and Environmental Epidemiology*. **25**(2):153-159, 2015, PMID: PMC4462122.
129. Ferguson KK, McElrath TF, Chen, Y-H, **Mukherjee B**, Meeker JD. Urinary phthalate metabolites are associated with increased oxidative stress biomarkers in pregnant women: a repeated measures analysis. *Environmental Health Perspectives*, **123**(3):210-216, 2015, PMID: PMC4348741.
130. *Chen Y-H, Ferguson KK, Meeker JD, McElrath TF and **Mukherjee B**. Statistical methods for modeling repeated measures of maternal environmental exposure biomarkers during pregnancy in association with preterm birth. *Environmental Health*, **14**:9, 2015, PMID: PMC4417225.

131. Needham BL, Kim C, **Mukherjee, B**, Bagchi, P, Stanczyk, F, Kanaya, AM. Endogenous sex steroid hormones and glucose in non-diabetic South Asians: The Metabolic Syndrome and Atherosclerosis in South Asians Living in America pilot study. *Diabetic Medicine*, **32**(9):1193-200, 2015, PMID: PMC4449322.
132. Cantonwine DE, Ferguson KK, **Mukherjee B**, McElrath TF, Meeker JD. Urinary Bisphenol A Levels during Pregnancy and Risk of Preterm Birth. *Environment Health Perspective*, **123**(9):895-901, 2015, PMID: PMC4559950.
133. Ferguson KK, McElrath TF, Cantonwine DE, **Mukherjee B**, Meeker JD. Phthalate metabolites and bisphenol-A in association with circulating angiogenic biomarkers across pregnancy. *Placenta*, **36**(6):699-703, 2015, PMID: PMC4441857.
134. *He Z, Payne EK, **Mukherjee B**, Lee S, Smith JA, Ware EB, Sanchez BN, Seeman TE, Kardia SLR, Diez Roux AV. Association between stress response genes and features of diurnal cortisol curves in the Multi-Ethnic Study of Atherosclerosis: A new multi-phenotype approach for gene-based association tests. *PLoS ONE*, **10**(5):e0126637, 2015, PMID: PMC4439141.
135. Schumacher et al. Genome-wide association study of colorectal cancer identifies six new susceptibility loci. *Nature Communications*, (**Mukherjee B** is among other authors), **6**:7138, 2015, PMID: PMC4967357.
136. Ware EB, **Mukherjee B**, Sun YV, Diez-Roux AV, Kardia SLR, Smith JA. Comparative genome-wide association studies of a depressive symptom phenotype in a repeated measures setting by race/ethnicity in the Multi-Ethnic Study of Atherosclerosis. *BMC Genetics*, **16**:118, 2015, PMID: PMC4603946.
137. **Mukherjee B**, Chen YH, Ko YA, He Z, Park SK, Lee S, Zhang M. Statistical approaches for studying gene-environment interaction in longitudinal studies. In *Statistical Approaches to Gene-Environment Interactions for Complex Phenotypes*. Windle, M. (Ed.), MIT Press, Cambridge, MA, 2015.
138. *He Z, Zhang M, Lee S, Smith JA, Guo X, Palmas W, Kardia SLR, Diez-Roux AV, **Mukherjee B**. Set-based tests for genetic association in longitudinal studies. *Biometrics*, **71**(3):606-615, 2015, PMID: PMC4601568.
139. Ferguson KK, McElrath TF, **Mukherjee B**, Loch-Carusio, R, Meeker JD. Associations between maternal biomarkers of phthalate exposure and inflammation using repeated measurements across pregnancy. *PLoS One*, **10**(8):e0135601, 2015, PMID: PMC4552851.
140. Needham BL, Smith JA, Zhao W, Wang X, **Mukherjee B**, Kardia SLR, Shively CA, Seeman TE, Liu Y, Diez Roux AV. Life Course Socioeconomic Status and DNA Methylation in Genes Related to Stress Reactivity and Inflammation: The Multi-Ethnic Study of Atherosclerosis. *Epigenetics*, **10**(10): 958-969, 2015, PMID: PMC4844216.
141. *Boonstra PS, Taylor JMG, **Mukherjee B**. Data-Adaptive Shrinkage via the Hyperpenalized EM Algorithm. *Statistics in Biosciences*, **7**(2):417-431, 2015, PMID: PMC4728141.
142. *Boonstra PS, **Mukherjee B**, Gruber SB, Ahn J, Schmit SL, Chatterjee N. Tests for Gene-Environment Interactions and Joint Effects with Exposure Misclassification. *The American Journal of Epidemiology*, **183**(3):237-247, 2016, PMID: PMC4724093.

143. Ware EB, Smith JA, **Mukherjee B**, Lee S, Kardia, SLR and Diez-Roux, AV. Applying novel methods for assessing individual- and neighborhood-level social and psychosocial environment interactions with genetic factors in the prediction of depressive symptoms in the Multi-Ethnic Study of Atherosclerosis. *Behavioral Genetics*, **46**(1): 89-99, 2016, PMID: PMC4720563.
144. Brook RD, Sun Z, Brook JR, Zhao X, Ruan Y, Yan J, **Mukherjee B**, Rao X, Duan F, Sun L, Liang R, Lian H, Zhang S, Fang Q, Gu D, Sun Q, Fan Z, Rajagopalan S. Extreme Air Pollution Conditions Adversely Affect Blood Pressure and Insulin Resistance: The Air Pollution and Cardiometabolic Disease Study. *Hypertension*, **67**(1):77-85, 2016, PMID: PMC4830086.
145. Cantonwine DE, Ferguson KK, **Mukherjee B**, Chen YH, Smith NA, Robinson JN, Doubilet PM, Meeker JD, McElrath TF. Utilizing Longitudinal Measures of Fetal Growth to Create a Standard Method to Assess the Impacts of Maternal Disease and Environmental Exposure. *PLoS One*, **11**(1):e0146532, 2016, PMID: PMC4701464.
146. Koi M, Garcia M, Choi C, Kim HR, Koike J, Hemmi H, Nagasaka T, Okugawa Y, Toiyama Y, Kitajima T, Imaoka H, Kusunoki M, Chen YH, **Mukherjee B**, Boland CR, Carethers JM. Microsatellite Alterations with Allelic Loss at 9p24.2 Signify Less aggressive Colorectal Cancer Metastasis. *Gastroenterology*, **150**(4):944-55, 2016, PMID: PMC4808397.
147. *Ko YA, **Mukherjee B**, Smith JA, Kardia SLR, Allison M, Diez Roux AV. Classification and clustering methods for multiple environmental factors for gene-environment interaction - application to the Multi-Ethnic Study of Atherosclerosis. *Epidemiology*, **27**(6): 870-878, 2016, PMID: PMC5039086.
148. Su F-C, Goutman SA, Chernyak S, **Mukherjee B**, Callaghan BC, Batterman S, Feldman EA. The Role of Environmental Toxins on ALS: A Case-Control Study of Occupational Risk Factors. *JAMA Neurology*, **73**(7):803-811, 2016, PMID: PMC5032145.
149. *Chen Y-H, **Mukherjee B**, Meeker JD, Ferguson KK, VanderWeele TJ. Mediation Formula for Binary Outcome and Time-Varying Exposure and Mediator Accounting for Possible Exposure-Mediator Interaction. *American Journal of Epidemiology*, **184**(2):157-159, 2016, PMID: PMC4945703.
150. Wagner AL, Zhang Y, **Mukherjee B**, Ding Y, Wells EV, Boulton ML. The impact of Supplementary Immunization Activities on the epidemiology of measles in Tianjin, China. *International Journal of Infectious Diseases*, **45**:103-108, 2016, PMID: PMC4834250.
151. Zeng C et al. Identification of Susceptibility Loci and Genes for Colorectal Cancer Risk. *Gastroenterology*, **150**(7):1633-1645, 2016, PMID: PMC4909543. (**Mukherjee, B** among other authors as a member of CORECT consortium.)
152. Cantonwine DE, Meeker JD, Ferguson KK, **Mukherjee B**, Hauser R, McElrath T. Urinary concentrations of bisphenol A and phthalate metabolites measured during pregnancy and risk of preeclampsia. *Environmental Health Perspective*, **124**(10):1651-1655, 2016, PMID: PMC5047771.
153. Johns LE, Ferguson KK, McElrath TF, **Mukherjee B**, Meeker JD. Associations between repeated measures of maternal urinary phthalate metabolites and thyroid hormone parameters during pregnancy. *Environmental Health Perspective*, **124**(11):1808-1815, 2016, PMID: PMC5089879.
154. Basa RC, Davies V, Li X, Murali B, Shah J, Yang B, Li S, Khan MW, Tian M, Tejada R, Hassan A, Washington A Jr, **Mukherjee B**, Carethers JM, McGuire K. Decreased Anti-Tumor Cytotoxic Immunity among Microsatellite-Stable Colon Cancers from African Americans. *PLoS One*, **11**(6):e0156666, 2016, PMID: PMC4911070.

155. Wagner AL, Sun X, Huang Z, Ren J, **Mukherjee B**, Wells EV, Boulton ML. On Time Measles and Pneumococcal Vaccination of Shanghai Children: The Impact of Individual- and Neighborhood-Level Factors. *The Pediatric Infectious Disease Journal*, **35**(10):e311-7, 2016, PMID: 27294307.
156. Ferguson KK, Meeker JD, Cantonwine DE, Chen YH, **Mukherjee B**, McElrath TF. Urinary phthalate metabolite and bisphenol A associations with ultrasound and delivery indices of fetal growth. *Environment International*, **94**: 531-537, 2016, PMCID: PMC4980186.
157. Lee AW, Bomkamp A, Bandera EV, Jensen A, Ramus SJ, Goodman MT, Rossing MA, Modugno F, Moysich KB, Chang-Claude J, Rudolph A, Gentry-Maharaj A, Terry KL, Gayther SA, Cramer DW, Doherty JA, Schildkraut JM, Kjaer SK, Ness RB, Menon U, Berchuck A, **Mukherjee B**, Roman L, Pharoah PD, Chenevix-Trench G, Olson S, Hogdall E, Wu AH, Pike MC, Stram DO, Pearce CL. Ovarian Cancer Association Consortium. A splicing variant of TERT identified by GWAS interacts with menopausal estrogen therapy in risk of ovarian cancer. *International Journal of Cancer*, **139**(12):2646-2654, 2016, PMCID: PMC5500237.
158. Ferguson KK, Cantonwine DE, McElrath TF, **Mukherjee B**, Meeker JD. Repeated measures analysis of associations between urinary bisphenol-A concentrations and biomarkers of inflammation and oxidative stress in pregnancy. *Reproductive Toxicology*, **66**:93-98, 2016, PMCID: PMC5125888.
159. Needham, BL, **Mukherjee B**, Bagchi P, Kim C, Mukherjee A, Kandula NR, Kanaya A. Acculturation Strategies among South Asian Immigrants: The Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study. *Journal of Immigrant and Minority Health*. **19**(2):373-380, 2017, PMCID: PMC5003760.
160. Ferguson KK, Chen Y-H, VanderWeele TJ, McElrath TF, Meeker JD, **Mukherjee B**. Mediation of the relationship between maternal phthalate exposure and preterm birth by oxidative stress with repeated measurements across pregnancy. *Environmental Health Perspective*, **125**(3): 488-494, 2017, PMCID: PMC5332184.
161. Johns LE, Ferguson KK, McElrath TF, **Mukherjee B**, Seely EW, Meeker JD. Longitudinal profiles of thyroid hormone parameters in pregnancy and associations with preterm birth. *PLoS ONE*. **12**(1):e0169542, 2017, PMCID: PMC5217954.
162. Aung MT, Johns LE, Ferguson KK, **Mukherjee B**, McElrath TF, Meeker JD. Thyroid hormone parameters during pregnancy in relation to urinary bisphenol A concentrations: A repeated measures study. *Environment International*, **104**:33-40, 2017, PMCID: PMC5497503.
163. Wagner AL, Boulton ML, Sun X, **Mukherjee B**, Huang Z, Harmsen IA, Ren J, Zikmund-Fisher BJ. Perceptions of measles, pneumonia, and meningitis vaccines among caregivers in Shanghai, China, and the health belief model: a cross-sectional study. *BMC Pediatrics*. **17**:143, 2017, PMCID: PMC5468991.
164. Ferguson KK, Meeker JD, McElrath TF, **Mukherjee B**, Cantonwine DE. Repeated measures of inflammation and oxidative stress biomarkers in preeclamptic and normotensive pregnancies. *American Journal of Obstetrics and Gynecology*, **216**(5):527.e1-527.e9, 2017, PMCID: PMC5420472.
165. *He Z, Zhang M, Lee S, Smith JA, Kardia SLR, Diez Roux AVD, **Mukherjee B**. Set-Based Tests for Gene-Environment Interaction in Longitudinal Studies. *The Journal of the American Statistical Association, Application and Case Studies*, **112**(519):966-978, 2017, PMCID: PMC5954413.

166. *Chen Y-H and **Mukherjee, B**. A new variance component score test for testing distributed lag functions with applications in time series analysis. *Statistics and Probability Letters*, **123**: 122-127, 2017, PMID: PMC5703603.
167. Caram MEV, Borza T, Min H-S, Griggs JJ, Miller DC, Hollenbeck BK, **Mukherjee B**, Skolarus TA. Early national dissemination of abiraterone and enzalutamide for advanced prostate cancer in Medicare Part D. *The Journal of Oncology Practice*. **13**(8):e694-e702, 2017, PMID: PMC5555032.
168. Gauderman WJ, **Mukherjee B**, Aschard H, Hsu L, Lewinger JP, Patel C, Witte JS, Amos C, Tai C, Conti D, Torgerson D, Lee S, Chatterjee N. Update on the State of the Science for Analytical Methods for Gene-Environment Interactions. *The American Journal of Epidemiology*. **186**(7):762-770, 2017, PMID: PMC5859988.
169. Cheng W, Roberts B, **Mukherjee B**, Neitzel RL. Meta-Analysis of Job Exposure Matrix Data from Multiple Sources. *Journal of Exposure Science and Environmental Epidemiology*, **28**(3):259-274, PMID: 28975928.
170. *Sun Z, **Mukherjee B**, Estes JP, Vokonas P and Park SK. Exposure enriched outcome-dependent designs for longitudinal studies of gene-environment interaction. *Statistics in Medicine*, **36**(18):2947-2960, 2017, PMID: PMC5523112.
171. Johns LE, Ferguson KK, McElrath TF, **Mukherjee B**, Seely EW, Meeker JD. Urinary BPA and phthalate metabolite concentrations and plasma vitamin D levels in pregnant women: A repeated measures analysis. *Environmental Health Perspective*. **125**(8):087026, 2017, PMID: PMC5783673.
172. Patel CJ, Kerr J, Thomas DC, **Mukherjee B**, Ritz B, Chatterjee N, Jankowska M, Madan J, Karagas MR, McAllister KA, Mechanic LE, Fallin MD, Ladd-Acosta C, Blair IA, Teitelbaum SL, Amos CI. Opportunities and Challenges for Environmental Exposure Assessment in Population-Based Studies. *Cancer Epidemiology, Biomarkers and Prevention*. **26**(9):1370-1380, 2017, PMID: PMC5581729.
173. Smith JA, Zhao W, Wang, X, Ratliff SM, **Mukherjee B**, Kardia SL, Liu C, Diez Roux AV, Needham BL. Neighborhood characteristics influence DNA methylation of genes involved in stress response and inflammation: The Multi-Ethnic Study of Atherosclerosis. *Epigenetics*, **12**(8):662-673, 2017, PMID: PMC5687339.
174. Estes JP, Rice JD, Li S, Stringham HM, Boehnke M and **Mukherjee B**. Meta-analysis of gene-environment interaction exploiting gene-environment independence across multiple case-control studies. *Statistics in Medicine*. **36**(24):3895-3909, 2017, PMID: PMC5624850.
175. Needham BL, **Mukherjee B**, Bagchi P, Kim C, Mukherjea A, Kandula NR, Kanaya AM. Acculturation Strategies and Symptoms of Depression: The Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study. *Journal of Immigrant and Minority Health*, **20**(4):792-798, 2017, PMID: PMC5785586.
176. McAllister K, Mechanic LE, Amos C, Aschard H, Blair IA, Chatterjee N, Conti D, Gauderman WJ, Hsu L, Hutter CM, Jankowska MM, Kerr J, Kraft P, Montgomery SB, **Mukherjee B**, Papanicolaou G, Patel CJ, Ritchie MD, Ritz BR, Thomas DC, Wei P, Witte JS on behalf of GxE meeting participants. Current Challenges and New Opportunities for Gene-Environment Interaction Studies of Complex Diseases. *American Journal of Epidemiology*. **186**(7):753-761, 2017, PMID: PMC5860428.

177. *He Z, Lee S, Zhang M, Smith JA, Guo X, Palmas W, Kardia SLR, Ionita-Laza I, **Mukherjee B**. Rare-variant association tests in longitudinal studies, with an application to the Multi-Ethnic Study of Atherosclerosis (MESA). *Genetic Epidemiology*, **41**(8):801-810, 2017, PMCID: PMC5696115.
178. Park SK, Zhao Z, **Mukherjee B**. Construction of environmental risk score beyond standard linear models using machine learning methods: application to metal mixtures, oxidative stress and cardiovascular disease in NHANES. *Environmental Health*. **16**(1):102, 2017, PMCID: PMC5615812.
179. Huang Z, Zhang H, Boss J, Goutman SA, **Mukherjee B**, Dinov ID, Guan Y, for the Pooled Resource Open-Access ALS Clinical Trials Consortium. Complete hazard ranking to analyze right-censored data: an ALS survival study. *PLoS Computational Biology*, **13**(12):e1005887, 2017, PMCID: PMC5749893.
180. Ferguson, KK, Meeker, JD, Cantonwine, DE, **Mukherjee B**, Pace, GG, Weller, D McElrath, TF. Environmental phenol associations with ultrasound and delivery measures of fetal growth. *Environment International*, **112**:243-250, 2018, PMCID: PMC5899051.
181. Waldrop G, Zhong J, Peters M, Goud, A, Chen YH, Davis SN, **Mukherjee B**, Rajagopalan S. Incretin-based Therapy in Type 2 Diabetes: An Evidence Based Systematic Review and Meta-analysis. *Journal of Diabetes and its Complications*, **32**(1):113-122, 2018, PMID: 29074120.
182. *Liu G, Lee S, Lee A, Others, Pearce CL, **Mukherjee B**. Robust Tests for Additive Gene-Environment interaction in Case-Control Studies Using Gene-Environment Independence. *The American Journal of Epidemiology*, **187**(2):366-377, 2018, PMCID: PMC5860584.
183. Aker AM, Johns L McElrath TF, Cantonwine DE, **Mukherjee B**, Meeker JD. Associations between maternal phenol and paraben urinary biomarkers and maternal hormones during pregnancy: A repeated measures study. *Environment International*, **113**:341-349, 2018, PMCID: PMC5866216.
184. Roberts B, Seixas N, **Mukherjee B**, Neitzel, RL. Evaluating the Risk of Noise-Induced Hearing Loss Using Different Noise Measurement Criteria. *Annals of Work Exposure and Health*, **62**(3):295-306, 2018, PMID 29415217.
185. *Cheng W, Taylor JMG, Vokonas P, Park SK, **Mukherjee B**. Improving estimation and prediction in linear regression incorporating external information from an established reduced model. *Statistics in Medicine*, **37**(9):1515-1530, 2018, PMCID: PMC5889759.
186. Johns LE, Ferguson KK, Cantonwine DE, **Mukherjee B**, Meeker JD, McElrath TF. Subclinical Changes in Maternal Thyroid Function Parameters in Pregnancy and Fetal Growth. *The Journal of Clinical Endocrinology & Metabolism*, **103**(4):1349-1358, 2017, PMCID: PMC6018657.
187. Wagner AL, Xia L, Pandey P, Datta S, Chattopadhyay S, Mazumder T, Sujay Santra S, Nandi U, Pal J, Joshi S, **Mukherjee B**. Risk factors during pregnancy and early childhood in rural West Bengal, India: A feasibility study implemented via trained community health workers using mobile data collection devices. *Maternal and Child Health*, **22**(9):1286-1296. 2018, PMID: 29500782.
188. Caram MEV, Estes JP, Griggs JJ, Lin P, **Mukherjee B**. Temporal and geographic variation in the systemic treatment of advanced prostate cancer. *BMC Cancer*, **18**(1):258, 2018, PMCID: PMC5840834.

189. Fritsche L, Gruber SB, Wu Z, Schmidt EM, Zawistowski M, Moser SE, Blanc V, Brummet C, Kheterpal S, Abecasis GA, **Mukherjee B**. Association of Polygenic Risk Scores for Multiple Cancers in a Phenomewide Study: Results from The Michigan Genomics Initiative. *The American Journal of Human Genetics*, **102**(6):1048-1061, 2018, PMID: PMC5992124.
190. *Chen Y-H, **Mukherjee B**, Adar S, Berrocal V, Coull BA. Robust Distributed Lag Models using Data Adaptive Shrinkage. *Biostatistics*, **19**(4):461-478, 2018, PMID: PMC6454578.
191. Estes JP, **Mukherjee B**, Taylor JMG. Empirical Bayes Estimation and Prediction Using Summary-Level Information From External Big Data Sources Adjusting for Violations of Transportability. *Statistics in Biosciences*, **10**(3):568-586, 2018, PMID: PMC6529204.
192. Boss JA, Zhai J, Aung MT, Ferguson KK, Johns, LE; McElrath TF, Meeker JD, **Mukherjee, B**. Associations between mixtures of urinary phthalate metabolites with gestational age at delivery: a time to event analysis using summative phthalate risk scores. *Environmental Health*, **17**(1):56, 2018, PMID: PMC6011420.
193. Roberts B, Cheng W, **Mukherjee B**, Neitzel RL. Imputation of missing values in a large job exposure matrix using hierarchical information. *Journal of Exposure Science & Environmental Epidemiology*, **28**(6):615-648, 2018, PMID: 29789667.
194. Ferguson KK, Kamai EM, Cantonwine DE, **Mukherjee B**, Meeker JD, McElrath TF. Associations between repeated ultrasound measures of fetal growth and biomarkers of maternal oxidative stress and inflammation in pregnancy. *American Journal of Reproductive Immunology*, **80**(4):e13017, 2018, PMID: PMC6160349.
195. Ferguson KK, Yu Y, Cantonwine DE, McElrath TF, Meeker JD, **Mukherjee B**. Foetal ultrasound measurement imputations based on growth curves versus multiple imputation chained equation (MICE). *Pediatric and Perinatal Epidemiology*, **32**(5):469-473, 2018, PMID: PMC6939297.
196. Wagner AL, Xia L, Ghosh A, Pandey P, Datta S, Chattopadhyay S, Mazumder T, Santra S, Nandi U, Pal J, Joshi S, **Mukherjee B**. Using community health workers to refer pregnant women and young children to health care facilities in rural West Bengal, India: a prospective cohort study. *PloS ONE*, **13**(6):e0199607, 2018, PMID: PMC6013192.
197. *Cheng W, Taylor JMG, Gu T, Tomlins S and **Mukherjee B**. Informing a Risk Prediction Model for Binary Outcomes with External Coefficient Information. *Journal of the Royal Statistical Society, Series C, Applied Statistics*, **68**(1): 121-139, 2019. PMID: PMC6519970.
198. Cheng W, Roberts B, **Mukherjee B**, Neitzel RL. Meta-analysis of job-exposure matrix data from multiple sources. *Journal of exposure science & environmental epidemiology*, **28**(3):259-274, 2018, PMID: 28975928.
199. Nielsen JB, Thorolfsdottir RB, Fritsche LG, Zhou W, Skov MW, Graham SE, Herron TJ, McCarthy S, Schmidt EM, Sveinbjornsson G, Surakka I, Mathis MR, Yamazaki M, Crawford RD, Gabrielsen ME, Skogholt AH, Holmen OL, Lin M, Wolford BN, Dey R, Dalen H, Sulem P, Chung JH, Backman JD, Arnar DO, Thorsteinsdottir U, Baras A, O'Dushlaine C, Holst AG, Wen X, Hornsby W, Dewey FE, Boehnke M, Kheterpal S, **Mukherjee B**, Lee S, Kang HM, Holm H, Kitzman J, Shavit JA, Jalife J, Brummett CM, Teslovich TM, Carey DJ, Gudbjartsson DF, Stefansson K, Abecasis GR, Hveem K, Willer CJ. Biobank-driven genomic discovery yields new insight into atrial fibrillation biology. *Nature Genetics*, **50**(9):1234-1239, 2018, PMID: PMC6530775.

200. Wang W, Moroi S, Bakulski KM, **Mukherjee B**, Weisskopf MG, Schaumberg D, Sparrow D, Vokonas PS, Hu H, Park SK. Bone Lead Levels and Risk of Incident Primary Open-Angle Glaucoma: The VA Normative Aging Study. *Environmental Health Perspective*, **126**(8):087002, 2018, PMID: PMC6108844.
201. Wang X, **Mukherjee B**, Park SK. Associations of cumulative exposure to heavy metal mixtures with obesity and its comorbidities among U.S. adults in NHANES 2003-2014. *Environment International*. **121**(Pt 1):683-694, 2018, PMID: PMC6268112.
202. Lewis TC, Metitiri EE, Mentz GB, Ren X, Carpenter AR, Goldsmith AM, Wicklund KE, Eder BN, Comstock AT, Ricci JM, Brennan SR, Washington GL, Owens KB, **Mukherjee B**, Robins TG, Batterman SA, Hershenson MB. Community Action Against Asthma Steering Committee. Influence of viral infection on the relationships between airway cytokines and lung function in asthmatic children. *Respiratory Research*. **19**(1):228, 2018, PMID: PMC62499.
203. Schmit SL, Edlund CK, Schumacher FR, Gong J, Harrison TA, Huyghe JR, Qu C, Melas M, Van Den Berg DJ, Wang H, Tring S, Plummer SJ, Albanes D, Alonso MH, Amos CI, Anton K, Aragaki AK, Arndt V, Barry EL, Berndt SI, Bezieau S, Bien S, Bloomer A, Boehm J, Boutron-Ruault MC, Brenner H, Brezina S, Buchanan DD, Butterbach K, Caan BJ, Campbell PT, Carlson CS, Castela JE, Chan AT, Chang-Claude J, Chanock SJ, Cheng I, Cheng YW, Chin LS, Church JM, Church T, Coetzee GA, Cotterchio M, Cruz Correa M, Curtis KR, Duggan D, Easton DF, English D, Feskens EJM, Fischer R, FitzGerald LM, Fortini BK, Fritsche LG, Fuchs CS, Gago-Dominguez M, Gala M, Gallinger SJ, Gauderman WJ, Giles GG, Giovannucci EL, Gogarten SM, Gonzalez-Villalpando C, Gonzalez-Villalpando EM, Grady WM, Greenson JK, Gsur A, Gunter M, Haiman CA, Hampe J, Harlid S, Harju JF, Hayes RB, Hofer P, Hoffmeister M, Hopper JL, Huang SC, Huerta JM, Hudson TJ, Hunter DJ, Idos GE, Iwasaki M, Jackson RD, Jacobs EJ, Jee SH, Jenkins MA, Jia WH, Jiao S, Joshi AD, Kolonel LN, Kono S, Kooperberg C, Krogh V, Kuehn T, Küry S, LaCroix A, Laurie CA, Lejbkowitz F, Lemire M, Lenz HJ, Levine D, Li CI, Li L, Lieb W, Lin Y, Lindor NM, Liu YR, Loupakis F, Lu Y, Luh F, Ma J, Mancao C, Manion FJ, Markowitz SD, Martin V, Matsuda K, Matsuo K, McDonnell KJ, McNeil CE, Milne R, Molina AJ, **Mukherjee B**, Murphy N, Newcomb PA, Offit K, Omichessan H, Palli D, Cotoré JPP, Pérez-Mayoral J, Pharoah PD, Potter JD, Qu C, Raskin L, Rennert G, Rennert HS, Riggs BM, Schafmayer C, Schoen RE, Sellers TA, Seminara D, Severi G, Shi W, Shibata D, Shu XO, Siegel EM, Slattery ML, Southey M, Stadler ZK, Stern MC, Stintzing S, Taverna D, Thibodeau SN, Thomas DC, Trichopoulou A, Tsugane S, Ulrich CM, van Duijnhoven FJB, van Guelpan B, Vijai J, Virtamo J, Weinstein SJ, White E, Win AK, Wolk A, Woods M, Wu AH, Wu K, Xiang YB, Yen Y, Zanke BW, Zeng YX, Zhang B, Zubair N, Kweon SS, Figueiredo JC, Zheng W, Marchand LL, Lindblom A, Moreno V, Peters U, Casey G, Hsu L, Conti DV, Gruber SB. Novel Common Genetic Susceptibility Loci for Colorectal Cancer. *Journal of the National Cancer Institute*, **111**(2):146-157, 2019, PMID: PMC6555904.
204. Kim S, Wang M, Tyrer JP, Jensen A, Wiensch A, Liu G, Lee, AW, Ness RB, Salvatore M, Tworoger SS, Whittemore AS, Anton-Culver H, Sieh W, Olson SH, Berchuck A, Goode EL, Goddman MT, Doherty JA, Chenvix-Trench G, Rossing M, Webb PM, Giles GG, Terry KL, Ziogas A, Fortner RT, Menon U, Gayther SA, Wu AH, Song H, Brooks-Wilson A, Bandera EV, Cook LS, Cramer DW, Milne RL, Winham SJ, Kjaer SK, Modugno F, Thompson PJ, Chang-Claude J, Harris HR, Schildkraut JM, Le ND, Wentzensen N, Trabert B, Hogdall E, Huntsman D, Pike MC, Pharoah PDP, Pearce CL, and **Mukherjee B**. A Comprehensive Gene-Environment Interaction Analysis in Ovarian Cancer using Genome-wide Significant Common Variants. *International Journal of Cancer*, **144**(9):2192-2205, 2019, PMID: PMC6399057.

205. Aker AM, Ferguson KK, Rosario Z, **Mukherjee B**, Alshawabkeh AN, Cordero JF and Meeker JD. The Associations between Prenatal Exposure to Triclocarban, Phenols and Parabens with Gestational Age and Birth Weight in Northern Puerto Rico. *Environmental Research*, **169**:41-51, 2019, PMID: PMC6347499.
206. Tang M, Gao C, Goutman SA, Kalinin A, **Mukherjee B**, Guan Y, Dinov ID. Model-Based and Model-Free Techniques for Amyotrophic Lateral Sclerosis Diagnostic Prediction and Patient Clustering. *Neuroinformatics*. **17**(3):407-421, 2019, PMID: PMC6527505.
207. Lewis TC, Metitiri EE, Mentz GB, Ren X, Goldsmith AM, Eder BN, Wicklund KE, Walsh MP, Comstock AT, Ricci JM, Brennan SR, Washington GL, Owens KB, **Mukherjee B**, Robins TG, Batterman SA, Hershenson MB. Community Action Against Asthma Steering Committee. Impact of Community Respiratory Viral Infections In Urban Children with Asthma. *Annals of Allergy, Asthma, Immunology*, **122**(2):175-183.e2, 2019, PMID: PMC6360098.
208. *Chen Y-H, **Mukherjee B** and Berrocal V. Distributed Lag Interaction Models with Two Pollutants. *JRSS, Series C. Applied Statistics*, **68**(1):79-97, 2019, PMID: PMC6328049.
209. Aung MT, Ferguson KK, Cantonwine DE, Bakulski KM, **Mukherjee B**, Loch-Carusso R, McElrath TF, Meeker JD. Associations between maternal plasma measurements of inflammatory markers and urinary levels of phenols and parabens during pregnancy: A repeated measures study. *Science of the Total Environment*, **650**(Pt1):1131-1140, 2019, PMID: PMC6236678.
210. Narisetty NN, **Mukherjee B**, Chen, Y-H, Gonzalez R, Meeker JD. Selection of nonlinear interactions by a forward stepwise algorithm: Application to identifying environmental chemical mixtures affecting health outcomes. *Statistics in Medicine*, **38**(9):1582-1600, 2019, PMID: PMC7134269.
211. Yu Y, Xia L, Lee S, Zhou X, Stringham HM, Boehnke M, **Mukherjee B**. Subset-Based Analysis Using Gene-Environment Interactions for Discovery of Genetic Associations across Multiple Studies or Phenotypes. *Human Heredity*, **83**(6):283-314, 2019, PMID: 7034441
212. Goutman SA, Boss JA, Patterson A, **Mukherjee B**, Batterman S, Feldman E. High plasma concentrations of organic pollutants negatively impact survival in amyotrophic lateral sclerosis. *Journal of Neurology, Neurosurgery and Psychiatry*, **90**(8):907-912, 2019, PMID: PMC6625908.
213. Idos, GE, Kurian, AW, Ricker, C, Sturgeon, D, Culver JO, Kingham K, Kopf R, Chun N, Rowe-Teeter P, Lebensohn L, Levonian P, Lowstuter, K, Partynski K, Hong C, Mills, MA, Petrovchich I, Ma CS, Hartman AR, Allen B, Wenstrup, RJ, Lancaster JM, Brown KJ, Kidd J, Evans B, **Mukherjee B**, McDonnell, KJ, Ladabaum U, Ford JM, and Gruber SB. Multicenter Prospective Cohort Study of the Diagnostic Yield and Patient Experience of Multiplex Gene Panel Testing For Hereditary Cancer Risk. *JCO Precision Oncology*, **3**:PO.18.00217. 2019, PMID: PMC8260917.
214. Mohan DR, Lerario AM, Else T, **Mukherjee B**, Almeida MQ, Vinco M, Rege J, Mariani BMP, Zerbini MCN, Mendonca BB, Latronico AC, Marie SKN, Rainey WE, Giordano TJ, Fragoso MCBV, Hammer GD. Targeted assessment of G0S2 methylation identifies a rapidly recurrent, routinely fatal molecular subtype of adrenocortical carcinoma. *Clinical Cancer Research*, **25**(11):3276-3288, 2019, PMID: PMC7117545.
215. Brown KM, Diez-Roux AV, Smith JA, Needham BL, **Mukherjee B**, Ware EB, Liu Y, Cole SW, Seeman TE, Kardia SLR. Expression of socially sensitive genes: The multi-ethnic study of atherosclerosis. *PLoS One*, **14**(4):e0214061, 2019, PMID: PMC6459532.

216. Aker AM, Ferguson KK, Rosario ZY, **Mukherjee B**, Alshawabkeh AN, Calafat AM, Cordero JF, Meeker JD. A repeated measures study of phenol, paraben and Triclocarban urinary biomarkers and circulating maternal hormones during gestation in the Puerto Rico PROTECT cohort. *Environmental Health*, **18**(1):28, 2019, PMID: PMC6444601.
217. Wang X, **Mukherjee B**, Batterman S, Park S. Urinary Metals and Metal Mixtures in Midlife Women: The Study of Women's Health across the Nation (SWAN). *International journal of hygiene and environmental health*, **222**(5):778-789, 2019, PMID: PMC6583796.
218. *Gu T, **Mukherjee B**, Taylor JMG. Synthetic data method to incorporate external information into a current study. *The Canadian Journal of Statistics*, **47**:580–603, 2019, PMID: PMC7410329.
219. Caram MEV, Ross R, Lin P, **Mukherjee B**. Factors Associated with Use of Sipuleucel-T to Treat Patients with Advanced Prostate Cancer. *JAMA Network Open*, **2**(4):e192589, 2019, PMID: PMC6481456.
220. Park SK, Peng Q, Ding N, **Mukherjee B**, Harlow SD. Determinants of per- and polyfluoroalkyl substances (PFAS) in midlife women: Evidence of racial/ethnic and geographic differences in PFAS exposure. *Environmental Research*, **175**:186-199, 2019, PMID: PMC6579633.
221. Alimujiang A, Wiensch A, Boss J, Fleischer NL, Mondul AM, McLean K, **Mukherjee B**, Pearce CL. Association Between Life Purpose and Mortality Among US Adults Older Than 50 Years. *JAMA Network Open*, **2**(5):e194270, 2019, PMID: PMC6632139.
222. Fritsche LG, Beesley LJ, VandeHaar P, Peng RB, Salvatore M, Zawistowski M, Gagliano Taliun SA, Das S, LeFaive J, Kaleba EO, Klumpner TT, Moser SE, Blanc VM, Brummett CM, Khetarpal S, Abecasis GR, Gruber SB, **Mukherjee B**. Exploring various polygenic risk scores for skin cancer in the phenomes of the Michigan genomics initiative and the UK Biobank with a visual catalog: PRSWeb. *PloS Genetics*, **15**(6):e1008202, 2019, PMID: PMC6592565.
223. Ferguson KK, Laz Z, Yu Y, **Mukherjee B**, McElrath TF, Meeker JD. Urinary concentrations of phenols in association with biomarkers of oxidative stress in pregnancy: Assessment of effects independent of phthalates. *Environment International*, **131**:104903, 2019, PMID: PMC6728185.
224. Caram MEV, Wang S, Tsao P, Griggs JJ, Miller DC, Hollenbeck BK, Lin P, **Mukherjee B**. Patient and Provider Variables Associated with Variation in the Systemic Treatment of Advanced Prostate Cancer. *Urology Practice*, **6**(4):234-242, 2019, PMID: PMC6605774.
225. *Boss J, **Mukherjee B**, Ferguson KK, Aker A, Alshawabkeh AN, Cordero JF, Meeker JD, Kim S. Estimating outcome-exposure associations when exposure biomarker detection limits vary across batches. *Epidemiology*, **30**(5):746-755, 2019, PMID: PMC6677587.
226. Laskaris Z, Milando C, Batterman S, **Mukherjee B**, Basu N, O'Neill MS, Robins TG, Fobil JN. Derivation of Time-Activity Data Using Wearable Cameras and Measures of Personal Inhalation Exposure among Workers at an Informal Electronic-Waste Recovery Site in Ghana. *Annals of work exposures and health*, **63**(8):829-841, 2019, PMID: PMC6788341.
227. Hazzard VM, Bauer KW, **Mukherjee B**, Miller AL, Sonnevile KR. Associations between childhood maltreatment latent classes and eating disorder symptoms in a nationally representative sample of young adults In the United States. *Child abuse & neglect*, **98**:104171, 2019, PMID: PMC6885127.

228. Wang X, **Mukherjee B**, Park SK. Does Information on Blood Heavy Metals Improve Cardiovascular Mortality Prediction? *Journal of the American Heart Association*, **8**(21): e013571, 2019, PMID: PMC6898859.
229. Aung M.T., Yu Y., Ferguson K.K., Cantonwine D.E., Zeng L., McElrath T.F., Pennathur S., **Mukherjee B.**, Meeker J.D. Prediction and associations of preterm birth and its subtypes with eicosanoid enzymatic pathways and inflammatory markers. *Scientific Reports*, **9**(1): 17049, 2019, PMID: PMC6863859.
230. Bi W, Zhao Z, Dey R, Fritsche L, **Mukherjee B**, Lee S. A Fast and Accurate Method for Genome-Wide Scale Phenome-Wide G×E Analysis and its Application to UK Biobank. *American Journal of Human Genetics*. **105**(6):1182-1192, 2019, PMID: PMC6904814.
231. Elliott MR, Zhao Z, **Mukherjee B**, Kanaya A, Needham B. Methods to Account for Uncertainty in Latent Class Assignments when using Latent Classes as Predictors in Regression Models, with Application to Acculturation Strategy Measures. *Epidemiology*. **31**(2):194-204, 2019, PMID: PMC7480960.
232. Beesley L, Salvatore M, Fritsche L, Pandit A, Rao A, Brummett C, Willer C, Lisabeth LD, **Mukherjee B**. The Emerging Landscape of Health Research Based on Biobanks Linked to Electronic Health Records: Existing Resources, Statistical Challenges, and Potential Opportunities. *Statistics in Medicine*, **39**(6):773-800, 2019, PMID: PMC7983809.
233. Aung M, Meeker J, Boss J, Bakulski K, **Mukherjee B**, Cantonwine D, McElrath T, Ferguson K. Manganese Is Associated with Increased Plasma interleukin-1 β During Pregnancy, Within a Mixtures Analysis Framework of Urinary Trace Metals. *Reproductive Toxicology*, **93**:43-53, 2019, PMID: PMC7138746.
234. Needham BL, Salerno, Roberts E, Boss J, Allgood KL, **Mukherjee B**. Do black/white differences in telomere length depend on socioeconomic status? *Biodemography and Social Biology* **65**(4):287-312, 2019, PMID: PMC7703670.
235. Hazzard VM, Miller AL, Bauer KW, **Mukherjee B**, Sonnevile KR. Mother-child and father-child connectedness in adolescence and disordered eating symptoms in young adulthood. *Journal of Adolescent Health*. **66**(3):366-371, 2020, PMID: PMC70077817.
236. *Song Y, Zhou X, Zhang M, Zhao W, Liu Y, Kardia SL, Diez-Roux AVR, Needham B, Smith J, **Mukherjee B**. Bayesian Shrinkage Estimation of High Dimensional Causal Mediation Effects in Omics Studies. *Biometrics*, **76**(3):700-710, 2020, PMID: PMC7228845.
237. Aker A, McConnell R, Loch-Caruso R, Park S, **Mukherjee B**, Rosario Z, Velez-Vega C, Huerta-Montanez G, Alashawabkeh A, Cordero J, Meeker J. Interactions Between Chemicals and Non-Chemical Stressors: The Modifying Effect of Life Events on the Association Between Triclocarban, Phenols and Parabens with Gestational Length in Puerto Rican Cohort. *The Science of the Total Environment*, **708**:34719, 2020, PMID: PMC6957748.
238. Ding N, Harlow SD, Batterman S, **Mukherjee B**, Park SK. Longitudinal Trends in Perfluoroalkyl and Polyfluoroalkyl Substances Among Multiethnic Midlife Women From 1999 to 2011: The Study of Women's Health Across the Nation. *Environment International*, **135**:105381, 2020, PMID: PMC7374929.

239. Lee AW, Wu AH, Wiensch A, **Mukherjee B**, Terry KL, Harris HR, Carney ME, Jensen A, Cramer D, Berchuck A, Doherty JA, Modugno F, Goodman MT, Alimujiang A, Rossing MA, Cushing-Haugen KL, Bandera EV, Thompson PJ, Kjaer SK, Hogdall E, Webb PM, Huntsman DG, Moysich KB, Lurie G, Ness RB, Stram DO, Roman L, Pike MC, Pearce CL, Ovarian Cancer Association Consortium. Estrogen Plus Progestin Hormone Therapy and Ovarian Cancer: A Complicated Relationship Explored. *Epidemiology*, **31**(3):402-408, 2020, PMID: PMC7584395.
240. Ashrap P, Watkins DJ, **Mukherjee B**, Boss J, Richards MJ, Rosario Z, Velez-Vega CM, Alshawabkeh A, Cordero JF, Meeker JD. Predictors of Urinary and Blood Metal(loid) Concentrations Among Pregnant Women in Northern Puerto Rico. *Environmental research*, **183**:1097178, 2020, PMID: PMC7167342.
241. Zhang M, Yu Y, Wang S, Salvatore M, Fritsche L, He Z, **Mukherjee B**. Interaction Analysis Under Misspecification of Main Effects: Some Common Mistakes and Simple Solutions. *Statistics in Medicine*, **39**(11):1675-1694, 2020, PMID: 32101638.
242. Zhang H, **Mukherjee B**, Arthur V, Hu G, Hochner H, Chen J. An Efficient and Computationally Robust Statistical Method for Analyzing Case-Control Mother-Offspring Pair Genetic Association Studies. *Annals of Applied Statistics*, **14**(2):560-584, 2020.
243. Kim SS, Meeker JD, Aung MT, Yu Y, **Mukherjee B**, Cantonwine DE, McElrath TF Ferguson KK. Urinary trace metals in association with fetal ultrasound measures during pregnancy, *Environmental Epidemiology*, (2).pii e075, 2020, PMID: PMC7083213.
244. Beesley LJ, Fritsche LG, **Mukherjee B**. An analytic framework for exploring sampling and observation process biases in genome and phenome-wide association studies using electronic health records. *Statistics in Medicine*, **39**(14):1965-1979, 2020 PMID: 32198773.
245. Brown KM, Diez-Roux AV, Smith JA, Needham BL, **Mukherjee B**, Ware EB, Liu Y, Cole SW, Seeman TE, Kardia SLR. Social regulation of inflammation related gene expression in the multi-ethnic study of atherosclerosis, *Psychoneuroendocrinology*, **117**:104654, 2020, PMID: PMC7685527.
246. Ray D, Salvatore M, Bhattacharyya R, Wang L, Du J, Mohammed S, Purkayastha S, Halder A, Rix A, Barker D, Kleinsasser M, Zhou Y, Bose D, Song P, Banerjee M, Baladandayuthapani V, Ghosh P, **Mukherjee B**. Predictions, role of interventions and effects of a historic national lockdown in India's response to the COVID-19 pandemic: data science call to arms. *Harv Data Sci Rev*. 2020;2020(Suppl 1):10.1162/99608f92.60e08ed5. doi: 10.1162/99608f92.60e08ed5. Epub 2020 Jun 9. PMID: 32607504; PMID: PMC7326342.
247. Brieger KK, Peterson S, Lee AW, **Mukherjee B**, Bakulski KM, Alimujiang A, Anton-Culver H, Anglesio MS, Bandera EV, Berchuck A, Bowtell DDL, Chenevix-Trench G, Cho KR, Cramer DW, DeFazio A, Doherty JA, Fortner RT, Garsed DW, Gayther SA, Gentry-Maharaj A, Goode EL, Goodman MT, Harris HR, Høgdall E, Huntsman DG, Shen H, Jensen A, Johnatty SE, Jordan SJ, Kjaer SK, Kupryjanczyk J, Lambrechts D, McLean K, Menon U, Modugno F, Moysich K, Ness R, Ramus SJ, Richardson J, Risch H, Rossing MA, Trabert B, Wentzensen N, Ziogas A, Terry KL, Wu AH, Hanley GE, Pharoah P, Webb PM, Pike MC, Pearce CL; Ovarian Cancer Association Consortium. Menopausal hormone therapy prior to the diagnosis of ovarian cancer is associated with improved survival, *Gynecologic Oncology*, **158**(3):702-709, 2020, PMID: PMC7487048.

248. Filigrana P, Milando C, Batterman S, Leby JI, **Mukherjee B**, Adar S. Spatiotemporal variations in traffic activity and their influence on air pollution levels in communities near highways. *Atmospheric Environment*, **242**:117758., 2020.
249. Purkayastha S, Salvatore M, **Mukherjee B**. Are women leaders significantly better at controlling the contagion during the Covid-19 pandemic? *Journal of Health and Social Sciences*, **5**(2):231-240, 2020, PMID: PMC7457824.
250. Wang X, Karvonen-Gutierrez CA, Herman WH, **Mukherjee B**, Harlow SD, Park SK. Urinary metals and incident diabetes in midlife women: Study of Women's Health Across the Nation (SWAN). *BMJ Open Diabetes Research & Care*, **8**(1):e001233, 2020, PMID: PMC7398092.
251. Lee AW, Rosenzweig S, Wiensch A, The Australian Ovarian Cancer Study Group, Ramus SJ, Menon U, Gentry-Maharaj A, Ziogas A, Anton-Culver H, Whittemore A, Sieh W, Rothstein JH, McGuire V, Wentzensen N, Bandera EV, Qin B, Terry KL, Cramer DW, Titus L, Schildkraut JM, Berchuck A, Goode EL, Kjaer SK, Jensen A, Jordan SJ, Ness RB, Modugno F, Moysich K, Thompson PJ, Goodman MT, Carney ME, Chang-Claude J, Rossing MA, Harris HR, Doherty JA, Risch HA, Khoja L, Alimujiang A, Phung MT, Brieger K, **Mukherjee B**, Pharoah PD, Wu AH, Pike, MC, Webb PM, Pearce CL. Expanding our understanding of ovarian cancer risk the role of incomplete pregnancies. *Journal of the National Cancer Institute*, **113**(3):301-308, 2020. PMID: PMC7936053.
252. Okita Y, Koi M, Takeda K, Ross R, **Mukherjee B**, Koeppe E, Stoffel EM, Galanko JA, McCoy AN, Keku TO, Okugawa Y, Kitajima T, Toiyama Y, Martens E, Carethers J. Fusobacterium nucleatum infection correlates with two types of microsatellite alterations in colorectal cancer and triggers DNA damage. *Gut Pathogens*, **12**:(46), eCollection, 2020, PMID: PMC7526104.
253. Fritsche LG, Patil S, Beesley LJ, VandeHaar P, Salvatore M, Ma Y, Peng RB, Taliun D, Zhou X, **Mukherjee B**. Cancer PRSweb: An Online Repository with Polygenic Risk Scores for Major Cancer Traits and Their Evaluation in Two Independent Biobanks. *The American Journal of Human Genetics*, **107**(5):815-836, 2020, PMID: PMC7675001.
254. Gu T, Mack JA, Salvatore M, Sankar SP, Valley TS, Singh K, Nallamotheu, BK Kheterpal, S, Lisabeth, L, Fritsche LG, **Mukherjee B**. Characteristics Associated With Racial/Ethnic Disparities in COVID-19 Outcomes in an Academic Health Care System. *JAMA Network Open*, **3**(10):e2025197, 2020, PMID: PMC7578774.
255. Wang X, **Mukherjee B**, Karvonen-Gutierrez CA, Herman WH, Batterman S, Harlow SD, Park SK. Urinary metal mixtures and longitudinal changes in glucose homeostasis: The Study of Women's Health Across the Nation (SWAN). *Environment International*, **45**:106109, 2020, PMID: PMC7577932.
256. Aung MT, Song Y, Ferguson KK, Cantonwine DE, Zeng L, McElrath TF, Pennathur S, Meeker JD, **Mukherjee B**. Application of an analytical framework for multivariate mediation analysis of environmental data. *Nature Communications*, **11**(1):5624, 2020, PMID: PMC7648785.
257. Bi W, Fritsche, LG, **Mukherjee B**, Kim S, Lee S. A Fast and Accurate Method for Genome-Wide Time-to-Event Data Analysis and Its Application to UK Biobank. *American Journal of Human Genetics*, **107**(2):222-233, 2020, PMID: PMC7413891.
258. Ashrap P, Watkins DJ, **Mukherjee B**, Boss J, Richards MJ, Rosario Z, Vélez-Vega CM, Alshwabkeh A, Cordero JF, Meeker JD. Maternal blood metal and metalloid concentrations

in association with birth outcomes in Northern Puerto Rico. *Environmental International*, **138**:105606, 2020, PMID: PMC7198231.

259. Salvatore M, Beesley LJ, Fritsche LG, Hanauer D, Shi X, Mondul AM, Pearce CL, **Mukherjee B**. Phenotype risk scores (PheRS) for pancreatic cancer using time-stamped electronic health record data: Discovery and validation in two large biobanks. *Journal of Biomedical Informatics*. **113**:103652, 2020, PMID: PMC7855433.
260. Ding N, Harlow SD, Randolph JF, Calafat AM, **Mukherjee B**, Batterman S, Gold EB, Park SK. Associations of Perfluoroalkyl Substances with Incident Natural Menopause: The Study of Women's Health Across the Nation. *Journal of Clinical Endocrinology and Metabolism*, **105**(9):e3169-e3182, 2020, PMID: PMC7418447.
261. Salvatore M, Basu D, Ray D, Kleinsasser M, Purkayastha S, Bhattacharyya R, **Mukherjee B**. Comprehensive public health evaluation of lockdown as a non-pharmaceutical intervention on COVID-19 spread in India: national trends masking state-level variations. *BMJ Open*, 2020, **10**(12):e041778, PMID: PMC7733201.
262. Subbaraman R, Ganapathi L, **Mukherjee B**, Bloom DE, Solomon SS. Humane shelter at home: a call to reimagine a core pandemic intervention. *BMJ Global Health*, 2021, **6**(8):e006614. PMID: PMC8349640.
263. Yu Y, Zhang M, Shi X, Caram M.E.V, Little R. J. A, **Mukherjee B**. A comparison of parametric propensity score-based methods for causal inference with multiple treatments and a binary outcome. *Statistics in Medicine*, **40**(7):1653-1677, 2021, PMID: 33462862.
264. Ross RD, Shi X, Caram MEV, Tsao P, Lin P, Bohnert A, Zhang M, **Mukherjee B**. Veridical causal inference using propensity score methods for comparative effectiveness research with medical claims. *Health Services and Outcomes Research Methodology*, **21**(2):206-228, 2021, PMID: PMC8142944.
265. Wang X, Karvonen-Gutierrez CA, **Mukherjee B**, Herman WH, Park SK. Urinary metals and adipokines in midlife women: The Study of Women's Health Across the nation (SWAN). *Environmental Research*, **196**:110426, 2021, PMID: PMC8093324.
266. Salerno S, Zhao Z, Sankar SP, Salvatore M, Gu T, Fritsche LG, Lisabeth LD, Valley TS, **Mukherjee B**. Patterns of repeated diagnostic testing for COVID-19 in relation to patient characteristics and outcomes. *Journal of Internal Medicine*, **289**(5):726-737, 2021, PMID: PMC7753604.
267. Wu KH, Hornsby WE, Klunder B, Krause A, Driscoll A, Kulka J, Bickett-Hickok R, Fellows A, Graham S, Kaleba EO, Hayek SS, Shi X, Sutton NR, Douville N, **Mukherjee B**, Jamerson K, Brummett CM, Willer CJ. Exposure and risk factors for COVID-19 and the impact of staying home on Michigan residents. *PLoS One*, 2021, **16**(2):e0246447, PMID: PMC7870003.
268. Ashrap P, Aker A, Watkins DJ, **Mukherjee B**, Rosario-Pabón Z, Vélez-Vega CM, Alshawabkeh A, Cordero JF, Meeker JD. Psychosocial status modifies the effect of maternal blood metal and metalloid concentrations on birth outcomes. *Environment International*, 2021, **149**:106418, PMID: PMC7897320.

269. Laskaris Z, Batterman SA, Arko-Mensah J, **Mukherjee B**, Fobil JN, O'Neill MS, Robins TG. Opportunities and challenges in reducing personal inhalation exposure to air pollution among electronic waste recovery workers in Ghana. *American Journal of Industrial Medicine*, **64**(5):381-397, 2021, PMID: PMC8046737.
270. Phung MT, Lee AW, Wu AH, Berchuck A, Cho KR, Cramer DW, Doherty JA, Goodman MT, Hanley GE, Harris HR, McLean K, Modugno F, Moysich KB, **Mukherjee B**, Schildkraut JM, Terry KL, Titus L, Jordan SJ, Webb PM, Pike MC, Pearce CL. Depot-medroxyprogesterone acetate use is associated with decreased risk of ovarian cancer: the mounting evidence of a protective role of progestins. *Cancer Epidemiology Biomarkers & Prevention*, **30**(5):927-935, 2021, PMID: 33619020.
271. Chen Z, Boehnke M, Wen X, **Mukherjee B**. Revisiting the genome-wide significance threshold for common variant GWAS. *G3 Genes | Genomes | Genetics*, 2021, **11**(2):jkaa056, PMID: PMC8022962.
272. Abraham HG, Xia Y, **Mukherjee B**. Merajver SD. Incidence and survival of inflammatory breast cancer between 1973 and 2015 in the SEER database. *Breast Cancer Research Treatment*, **185**(1):229-238, 2021, PMID: 33033965.
273. Aung MT, Yu Y, Ferguson KK, Cantonwine DE, Zeng L, McElrath TF, Pennathur S, **Mukherjee B**, Meeker JD. Cross-Sectional Estimation of Endogenous Biomarker Associations with Prenatal Phenols, Phthalates, Metals, and Polycyclic Aromatic Hydrocarbons in Single-Pollutant and Mixtures Analysis Approaches. *Environmental Health Perspectives*. 2021, **129**(3):37007, PMID: PMC7990518.
274. Salvatore M, Gu T, Mack JA, Sankar SP, Patil S, Valley TS, Singh K, Nallamotheu BK, Kheterpal S, Lisabeth L, Fritsche LG, **Mukherjee B**. A Phenome-Wide Association Study (PheWAS) of COVID-19 Outcomes by Race Using the Electronic Health Records Data in Michigan Medicine. *Journal of Clinical Medicine*, 2021, **10**(7):1351, PMID: PMC8037108.
275. Aung MT, M Bakulski K, Feinberg JL, F Dou J, D Meeker J, **Mukherjee B**, Loch-Carusio R, Ladd-Acosta C, Volk HE, Croen LA, Hertz-Picciotto I, Newschaffer CJ, Fallin MD. Maternal blood metal concentrations and whole blood DNA methylation during pregnancy in the Early Autism Risk Longitudinal Investigation (EARLI). *Epigenetics*. 2021, **17**(3):253-268. PMID: PMC33794742.
276. Cikuru J, Bitenga A, Bazilashe J, Balegamire M, Salama PM, Hood MM, **Mukherjee B**, Mukwege A, Harlow SD. Impact of the Healing in Harmony program on women's mental health in a rural area in South Kivu province, Democratic Republic of Congo. *Global Mental Health*, 2021, **8**: e13. PMID: PMC8127635.
277. Cathey AL, Eaton JL, Ashrap P, Watkins DJ, Rosario ZY, Vélez Vega C, Alshawabkeh AN, Cordero JF, **Mukherjee B**, Meeker JD. Individual and joint effects of phthalate metabolites on biomarkers of oxidative stress among pregnant women in Puerto Rico. *Environment International*, 2021, **154**:106565, PMID: 33882432.
278. Bhattacharyya R, Kundu R, Bhaduri R, Ray D, Beesley LJ, Salvatore M, **Mukherjee B**. Incorporating false negative tests in epidemiological models for SARS-CoV-2 transmission and reconciling with seroprevalence estimates. *Scientific Reports*, 2021, **11**(1):9748, PMID: PMC8105357.

279. Aung MT, Ashrap P, Watkins DJ, **Mukherjee B**, Rosario Z, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Maternal lipidomic signatures in relation to spontaneous preterm birth and large-for-gestational age neonates. *Scientific Reports*, 2021, **11**(1):8115. PMID: PMC8046995.
280. Bi W, Zhou W, Dey R, **Mukherjee B**, Sampson JN, Lee S. Efficient mixed model approach for large-scale genome-wide association studies of ordinal categorical phenotypes. *The American Journal of Human Genetics*, 2021, **108**(5):825-839, PMID: PMC8206161.
281. Kuppalli K, Gala P, Cherabuddi K, Kalantri SP, Mohanan M, **Mukherjee B**, Pinto L, Prakash M, Pramesh CS, Rathi S, Pai NP, Yamey G, Pai M. India's COVID-19 crisis: a call for international action. *Lancet*, 2021, **397**(10290):2132-2135, PMID: PMC8120195.
282. Purkayastha S, Bhattacharyya R, Bhaduri R, Kundu R, Gu X, Salvatore M, Ray D, Mishra S, **Mukherjee B**. A comparison of five epidemiological models for transmission of SARS-CoV-2 in India. *BMC Infectious Diseases*, 2021, **21**(1):533, PMID: PMC81811542.
283. Ashrap P, Watkins DJ, **Mukherjee B**, Rosario-Pabón Z, Vélez-Vega CM, Alshawabkeh A, Cordero JF, Meeker JD. Performance of urine, blood, and integrated metal biomarkers in relation to birth outcomes in a mixture setting. *Environmental Research*, 2021, **200**:111435. PMID: PMC8403638.
284. Babu GR, Ray D, Bhaduri R, Halder A, Kundu R, Menon GI, **Mukherjee B**. COVID-19 Pandemic in India: Through the Lens of Modeling. *Global Health: Science and Practice*, 2021, **9**(2):200-228, PMID: PMC8324184.
285. Ding N, Karvonen-Gutierrez CA, Herman WH, Calafat AM, **Mukherjee B**, Park SK. Associations of perfluoroalkyl and polyfluoroalkyl substances (PFAS) and PFAS mixtures with adipokines in midlife women. *International Journal of Hygiene and Environmental Health*, 2021, **235**:113777, PMID: PMC8207532.
286. Harlow SD, Hood MM, Ding N, **Mukherjee B**, Calafat AM, Randolph JF, Gold EB, Park SK. Per- and Polyfluoroalkyl Substances and Hormone Levels during the Menopausal Transition. *The Journal of Clinical Endocrinology and Metabolism*, 2021, **106**(11): e4427-e4437. PMID: PMC8677593.
287. Wang X, Karvonen-Gutierrez CA, Herman WH, **Mukherjee B**, Harlow SD, Park SK. Urinary Heavy Metals and Longitudinal Changes in Blood Pressure in Midlife Women: The Study of Women's Health Across the Nation. *Hypertension*. 2021 **78**(2):543-551, PMID: PMC8266752.
288. Purkayastha S, Kundu R, Bhaduri R, Barker D, Kleinsasser M, Ray D, **Mukherjee B**. Estimating the wave 1 and wave 2 infection fatality rates from SARS-CoV-2 in India. *BMC Research Notes*, 2021. **14**(1):262, PMID: PMC8264482.
289. Ding N, Karvonen-Gutierrez CA, Herman WH, Calafat AM, **Mukherjee B**, Park SK. Perfluoroalkyl and polyfluoroalkyl substances and body size and composition trajectories in midlife women: the study of women's health across the nation 1999-2018. *International Journal of Obesity*, 2021, **45**(9):1937-1948, PMID: PMC8384652.

290. Fritsche LG, Ma Y, Zhang D, Salvatore M, Lee S, Zhou X, **Mukherjee B**. On Cross-ancestry Cancer Polygenic Risk Scores. *PLoS Genetics*, 2021, **17**(9): e10096790, PMID: PMC8445431.
291. Zimmermann L, Salvatore M, Babu GR, **Mukherjee B**. Estimating COVID-19 related mortality in India: An epidemiological challenge with insufficient data. *American Journal of Public Health*, **111**(S2):S59-S62, PMID: PMC8495647.
292. Yu Y, Gu T, Valley TS, **Mukherjee B**, Fritsche LG. Changes in COVID-19-related outcomes, potential risk factors and disparities over time. *Epidemiology and Infection*, 2021, **149**:E192. doi:10.1017/S0950268821001898.
293. Boss J, Rix A, Chen YH, Narisetty NN, Wu Z, Ferguson KK, McElrath TF, Meeker JD, **Mukherjee B**. A hierarchical integrative group least absolute shrinkage and selection operator for analyzing environmental mixtures. *Environmetrics*, 2021, **32**(8):e2698, PMID: PMC8664243.
294. Gu X, **Mukherjee B** Das S, Datta J. "COVID-19 prediction in South Africa: Estimating the unascertained cases – the hidden part of the epidemiological iceberg." *Journal Statistical Research*, 2021, **55**(1): 267-291.
295. Wang X, Ding N, Harlow SD, Randolph JF, **Mukherjee B**, Gold EB, Park SK. Urinary metals and metal mixtures and timing of natural menopause in midlife women: The Study of Women's Health Across the Nation. *Environmental International*, 2021, **157**:106781, PMID: PMC8490279.
296. Song Y, Zhou X, Kang J, Aunt MT, Zhang M, Zhao W, Needham BL, Kardia SLR, Liu Yongmei, Meeker JD, Smith JA, **Mukherjee B**. Bayesian hierarchical models for high-dimensional mediation analysis with coordinated selection of correlated mediators. *Statistics in Medicine*, 2021, **40**(27):6038-6056, PMID: 34404112.
297. Song Y, Zhou X, Kang J, Aung MT, Zhang M, Zhao W, Needham BL, Kardia SL, Liu Y, Meeker JD, Smith JA, **Mukherjee B**. Bayesian Sparse Mediation Analysis with Targeted Penalization of Natural Indirect Effects. *Journal of the Royal Statistical Society: Applied Statistics Series C*, 2021, **70**(5): 1391-1412, PMID: PMC8653861.
298. Cathey AL, Watkins DJ, Rosario ZY, Vega CMV, **Mukherjee B**, O'Neill MS, Loch-Carusio R, Alshawabkeh AN, Cordero JF, Meeker JD. Gestational Hormone Concentrations Are Associated With Timing of Delivery in a Fetal Sex-Dependent Manner. *Front Endocrinol (Lausanne)*. 2021, **12**:742145, PMID: PMC8479114.
299. Zhao Z, Salerno S, Shi X, Lee S, **Mukherjee B**, Fritsche LG. Understanding the Patterns of Serological Testing for COVID-19 Pre- and Post-Vaccination Rollout in Michigan. *Journal of Clinical Medicine*. 2021; **10**(19):4341, PMID: PMC8509702.
300. Lee S, Karvonen-Gutierrez C, **Mukherjee B**, Herman W, Harlow S, Park SK. Urinary concentrations of phenols and parabens and incident diabetes in midlife women. The Study of Women's Health Across the Nation. *Environmental Epidemiology*, 2021, **5**(5): e171, PMID: PMC8683147.
301. Zimmerman L, Bhattacharyya S, Purkayastha S, Kundu R, Bhaduri R, Ghosh P, **Mukherjee B**. SARS-CoV-2 Infection Fatality Rates in India: Systematic Review, Meta-analysis and Model-

based Estimation. *Studies in Microeconomics*, 2021, 9(2):137-179. doi: 10.1177/23210222211054324.

302. Datta J, **Mukherjee B**. Discussion on “Regression Models for Understanding COVID-19 Epidemic Dynamics with Incomplete Data.” *Journal of the American Statistical Association*. 2021, 116(536):1583-1586.
303. Brieger KK, Phung MT, **Mukherjee B**, Bakulski KM, Anton-Culver H, Bandera EV, Bowtell DDL, Cramer DW, DeFazio A, Doherty JA, Fereday S, Fortner RT, Gentry-Maharaj A, Goode EL, Goodman MT, Harris HR, Matsuo K, Menon U, Modugno F, Moysich KB, Qin B, Ramus SJ, Risch HA, Rossing MA, Schildkraut JM, Trabert B, Vierkant RA, Winham SJ, Wentzensen N, Wu AH, Ziogas A, Khoja L, Cho KR, McLean K, Richardson J, Grout B, Chase A, McKinnon Deurloo C, Odunsi K, Nelson BH, Brenton JD, Terry KL, Pharaoh PD, Berchuck A, Hanley GE, Webb PM, Pike MC, Pearce CL. High pre-diagnosis inflammation-related risk score associated with decreased ovarian cancer survival. *Cancer Epidemiology Biomarkers & Prevention*, 2022, 31(2): 443-452. PMID: 34789471.
304. Filigrana P, Milando C, Batterman S, Levy J, **Mukherjee B**, Pedde M, Szpiro A, Adar D. S. Exposure to Primary Air Pollutants Generated by Highway Traffic and the Risk of Daily Mortality in Near Road Communities: A Case-Crossover Study. *American Journal of Epidemiology*, 2022, 19(1):63-74, PMID: 34347034.
305. Du J, J Beesley L, Lee S, Zhou X, Dempsey W, **Mukherjee B**. Optimal diagnostic test allocation strategy during the COVID-19 pandemic and beyond. *Statistics in Medicine*. 2022, 41(2):310-327, PMCID: PMC8661762.
306. Khoja L, Weber RP; Australian Ovarian Cancer Study Group, Webb PM, Jordan SJ, Muthukumar A, Chang-Claude J, Fortner RT, Jensen A, Kjaer SK, Risch H, Doherty JA, Harris HR, Goodman MT, Modugno F, Moysich K, Berchuck A, Schildkraut JM, Cramer D, Terry KL, Anton-Culver H, Ziogas A, Phung MT, Hanley GE, Wu AH, **Mukherjee B**, McLean K, Cho K, Pike MC, Pearce CL, Lee AW. Endometriosis and menopausal hormone therapy impact the hysterectomy-ovarian cancer association. *Gynecologic Oncology*, 2022, 164(1):195-201, PMID: 34776242.
307. Cathey AL, Aung MT, Watkins DJ, Rosario ZY, Vélez Vega CM, Alshawabkeh AN, Cordero JF, **Mukherjee B**, Meeker JD. Mediation by hormone concentrations on the associations between repeated measures of phthalate mixture exposure and timing of delivery. *Journal of Exposure Science & Environmental Epidemiology*, 2022, 32(3):374-383. PMCID: PMC9124667.
308. Ashrap P, Aung MT, Watkins DJ, **Mukherjee B**, Rosario-Pabón Z, Vélez-Vega CM, Alshawabke A, Cordero JF, Meeker JD. Maternal urinary phthalate metabolites are associated with lipidomic signatures among pregnant women in Puerto Rico. *Journal of exposure science & environmental epidemiology*, 2022, 32(3): 384-391. PMID: 35075242.
309. Kim C, Ashrap P, Watkins DJ, **Mukherjee B**, Rosario-Pabón ZY, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Maternal Metals/Metalloid Blood Levels Are Associated With Lipidomic Profiles Among Pregnant Women in Puerto Rico. *Frontiers in public health*, 2022, 9:754706. PMCID: PMC879032
310. Kim C, Cathey AL, Watkins DJ, Mukherjee B, Rosario-Pabón ZY, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Maternal blood metal concentrations are associated with matrix metalloproteinases (MMPs) among pregnant women in Puerto Rico. *Environmental research*, 2022, 209:112874. PMID: 35123972.

311. Du J, Boss J, Han P, Beesley LJ, Kleinsasser M, Goutman SA, Batterman S, Feldman EL, **Mukherjee B**. Variable selection with multiply-imputed databases: choosing between stacked and grouped methods. *Journal of Computational and Graphical Statistics*, 31(4):1063-1075,2022, DOI: 10.1080/10618600.2022.2035739.
312. Wang X, Karvonen-Gutierrez C A, Herman WH, **Mukherjee B**, Park SK. Metals and risk of incident metabolic syndrome in a prospective cohort of midlife women in the United States. *Environmental research*, 2022, 210:112976, PMID: 35202625.
313. Bhaduri R, Kundu R, Purkayastha S, Kleinsasser M, Beesley LJ, **Mukherjee B**, Datta J. Extending the susceptible-exposed-infected-removed (SEIR) model to handle the false negative rate and symptom-based administration of COVID-19 diagnostic tests: SEIR-fansy *Statistics in Medicine*, 2022, 41(13):2317-2337. PMID:PMC9035093.
314. Ding N, Harlow SD, Jr Randolph JF, **Mukherjee B**, Batterman S, Gold EB, Park SK. Perfluoroalkyl Substances and Incident Natural Menopause in Midlife Women: The Mediating Role of Sex Hormones. *American Journal of Epidemiology*, 2022; 191(7):1212-1223. doi:10.1093/aje/kwac052. PMID: 35292812.
315. Cathey AL, Watkins DJ, Rosario ZY, Vélez C, **Mukherjee B**, Alshawabkeh AN, Cordero JF, Meeker JD. Biomarkers of Exposure to Phthalate Mixtures and Adverse Birth Outcomes in a Puerto Rico Birth Cohort. *Environmental Health Perspectives*, 2022, 130(3):37009. PMID: PMC8953418.
316. Beesley LJ, **Mukherjee B**. Statistical inference for association studies using electronic health records: handling both selection bias and outcome misclassification. *Biometrics*, 2022, 78(1):214-226. PMID: 33179768.
317. Tsao PA, Ross RD, Bohnert ASB, **Mukherjee B**, Caram MEV. Depression, Anxiety, and Patterns of Mental Health Care Among Men With Prostate Cancer Receiving Androgen Deprivation Therapy. *Oncologist*, 2022, 27(4):314-322. PMID: PMC8982372.
318. Lee S, Karvonen-Gutierrez C, **Mukherjee B**, Herman WH, Park SK. Race-specific associations of urinary phenols and parabens with adipokines in midlife women: The Study of Women's Health Across the Nation (SWAN). *Environmental Pollution*, 2022, 303:119164. doi:10.1016/j.envpol.2022.119164. PMID: 35306088.
319. Park SK, Wang X, Ding N, Karvonen-Gutierrez CA, Calafat AM, Herman WH, **Mukherjee B**, Harlow SH. Per- and polyfluoroalkyl substances and incident diabetes in midlife women: the Study of Women's Health Across the Nation (SWAN). *Diabetologia*, 2022, 65(7):1157-1168. PMID: PMC9177697.
320. Han P, Taylor JMG, **Mukherjee B**. Integrating Information from Existing Risk Prediction Models with No Model Details. *Can J Stat.* 2023 Jun;51(2):355-374. doi: 10.1002/cjs.11701. Epub 2022 Apr 15. PMID: 37346757; PMID: PMC10281716.
321. Chen C, Hauptert SR, Zimmermann L, Shi X, Fritsche LG, **Mukherjee B**. Global Prevalence of Post-Coronavirus Disease 2019 (COVID-19) Condition or Long COVID: A Meta-Analysis and Systematic Review. *J Infect Dis.* 2022 Nov 1;226(9):1593-1607. doi: 10.1093/infdis/jiac136. PMID: 35429399; PMID: PMC9047189.
322. Goutman SA, Boss J, Godwin C, **Mukherjee B**, Feldman EL, Batterman SA. Associations of self-reported occupational exposures and settings to ALS: a case-control study. *International*

323. **Mukherjee B**. Being a Public Health Statistician During a Global Pandemic. *Statistical Science*, 2022, **37**(2): 270-277.
324. Golbus JR, Gupta K, Stevens R, Jeganathan VS, Luff E, Boyden T, **Mukherjee B**, Klasnja Predrag, Kheterpal S, Kohnstamm S, Nallamotheu BK. Understanding Baseline Physical Activity in Cardiac Rehabilitation Enrollees Using Mobile Health Technologies. *Circulation: Cardiovascular Quality and Outcomes*, 2022; **15**(7):e009182. doi: 10.1161/CIR.COUTCOMES.122.009182. PMID: 35559648.
325. Wang YZ, Zhao W, Ammous F, Song Y, Du J, Shang L, Ratliff SM, Moore K, Kelly KM, Needham BL, Roux AVD, Liu Y, Butler KR, Kardias SLR, **Mukherjee B**, Zhou X, Smith JA. DNA Methylation Mediates the Association Between Individual and Neighborhood Social Disadvantage and Cardiovascular Risk Factors. *Frontiers in Cardiovascular Medicine*, 2022, **9**:848768. PMCID: PMC9162507
326. Fang Y, Fritsche LG, **Mukherjee B**, Sen S, Richmond-Rakerd LS. Polygenic Liability to Depression Is Associated With Multiple Medical Conditions in the Electronic Health Record: Phenome-wide Association Study of 46,782 Individuals. *Biol Psychiatry*. 2022 Dec 15;**92**(12):923-931. doi: 10.1016/j.biopsych.2022.06.004. Epub 2022 Jun 11. PMID: 35965108; PMCID: PMC10712651.
327. Ding N, Karvonen-Gutierrez CA, **Mukherjee B**, Calafat AM, Harlow SD, Park SK. Per- and Polyfluoroalkyl Substances and Incident Hypertension in Multi-Racial/Ethnic Women: The Study of Women's Health Across the Nation. *Hypertension*, 2022, **79**(8):1876-1886. doi:10.1161/HYPERTENSIONAHA.121.18809. PMID: 35695012.
328. Salvatore M, Purkayastha S, Ganapathi L, Bhattacharyya R, Kundu R, Zimmermann L, Ray D, Hazra A, Kleinsasser M, Solomon S, Subbaraman R, **Mukherjee B**. Lessons from SARS-CoV-2 in India: A data-driven framework for pandemic resilience. *Sci Adv*, 2022, **8**(24):eabp8621. doi:10.1126/sciadv.abp862. PMID: 35714183.
329. Hegde ST, Trostle JA, **Mukherjee B**, Eisenberg JNS. The importance of community during rapid development: The influence of social networks on acute gastrointestinal illness in rural Ecuador. *SSM Popul Health*, 2022, **19**:101159. doi:10.1016/j.ssmph.2022.101159. PMID: 35795263.
330. Zhuang Y, Wolford BN, Nam K, Bi W, Zhou W, Willer CJ, **Mukherjee B**, Lee S. Incorporating family disease history and controlling case-control imbalance for population-based genetic association studies. *Bioinformatics*. 2022 Sep 15;**38**(18):4337-4343. doi: 10.1093/bioinformatics/btac459. PMID: 35876838; PMCID: PMC9477535.
331. Clark-Boucher D, Boss J, Salvatore M, Smith JA, Fritsche LG, **Mukherjee B**. Assessing the added value of linking electronic health records to improve the prediction of self-reported COVID-19 testing and diagnosis. *PLoS One*. 2022, **17**(7):e0269017. doi:10.1371/journal.pone.0269017. PMID: 35877617.
332. Roberts EK, Gu T, Wagner AL, **Mukherjee B**, Fritsche LG. Estimating COVID-19 Vaccination and Booster Effectiveness Using Electronic Health Records from an Academic Medical Center in Michigan. *AJPM Focus*, 2022, **1**(1):100015. PMID: 36942016 PMCID: PMC9323299.
333. Kim C, Cathey AL, Watkins DJ, **Mukherjee B**, Rosario-Pabón ZY, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Maternal blood metal concentrations are associated with C-reactive protein and cell adhesion molecules among pregnant women in Puerto Rico.

Environmental Epidemiology, 2022, 6(4):e214.doi: 10.1097/EE9.0000000000000214. PMID: 35975168; PMCID: PMC9374188.

334. Kalesnikava VA, Clarke PJ, **Mukherjee B**, Sen S, Mezuk B. Psychosocial Stress and Hypothalamic-Pituitary-Adrenal Axis Stress Reactivity: Variations by Race and Socioeconomic Status Among Adults at Risk of Diabetes. *Psychosom Med*. 2022;**84**(7):813-821. doi:10.1097/PSY.0000000000001112. PMID: 35980779.
335. Beesley LJ, **Mukherjee B**. Case studies in bias reduction and inference for electronic health record data with selection bias and phenotype misclassification. *Stat Med*. 2022 Dec 10;**41**(28):5501-5516. doi: 10.1002/sim.9579. Epub 2022 Sep 21. PMID: 36131394; PMCID: PMC9826451.
336. Zimmermann L, **Mukherjee B**. Meta-analysis of nationwide SARS-CoV-2 infection fatality rates in India. *PLOS Global Public Health*. 2022;**2**(9):e0000897. doi: 10.1371/journal.pgph.0000897. PMID: 36962545; PMCID: PMC10021252.
337. Ma Y, Patil S, Zhou X, **Mukherjee B**, Fritsche LG. ExPRSweb: An online repository with polygenic risk scores for common health-related exposures. *Am J Hum Genet*. 2022 Oct 6;**109**(10):1742-1760. doi: 10.1016/j.ajhg.2022.09.001. Epub 2022 Sep 23. PMID: 36152628; PMCID: PMC9606385.
338. Goutman SA, Boss J, Godwin C, **Mukherjee B**, Feldman EL, Batterman SA. Occupational history associates with ALS survival and onset segment. *Amyotroph Lateral Scler Frontotemporal Degener*. 2023 May;**24**(3-4):219-229. doi: 10.1080/21678421.2022.2127324. Epub 2022 Oct 3. PMID: 36193557; PMCID: PMC10067530.
339. Zhao Z, Fritsche LG, Smith JA, **Mukherjee B**, Lee S. The construction of cross-population polygenic risk scores using transfer learning. *Am J Hum Genet*. 2022 Nov 3;**109**(11):1998-2008. doi: 10.1016/j.ajhg.2022.09.010. Epub 2022 Oct 13. PMID: 36240765; PMCID: PMC9674947.

340. Hauptert SR, Shi X, Chen C, Fritsche LG, **Mukherjee B**. A Case-Crossover Phenome-wide association study (PheWAS) for understanding Post-COVID-19 diagnosis patterns. *J Biomed Inform*. 2022 Dec;**136**:104237. doi: 10.1016/j.jbi.2022.104237. Epub 2022 Oct 23. PMID: 36283580; PMCID: PMC9595430.
341. Castro-Diehl C, Smith JA, Zhao W, Wang X, **Mukherjee B**, Seeman T, Needham BL. Prediction of telomere length and telomere attrition using a genetic risk score: The multi-ethnic study of atherosclerosis (MESA). *Front Aging*. 2022; **3**:1021051. doi:10.3389/fragi.2022.102105. PMCID: PMC9592760.
342. Peng MQ, Karvonen-Gutierrez CA, Herman WH, **Mukherjee B**, Park SK. Phthalate exposure is associated with more rapid body fat gain in midlife women: The Study of Women's Health Across the Nation (SWAN) Multi-Pollutant Study. *Environ Res*. 2023 Jan 1;**216**(Pt 3):114685. doi: 10.1016/j.envres.2022.114685. Epub 2022 Oct 28. PMID: 36341787; PMCID: PMC9870605.
343. Goutman SA, Boss J, Iyer G, Habra H, Savelieff MG, Karnovsky A, **Mukherjee B**, Feldman EL. Body mass index associates with amyotrophic lateral sclerosis survival and metabolomic profiles. *Muscle Nerve*. 2023 Mar;**67**(3):208-216. doi: 10.1002/mus.27744. Epub 2022 Nov 18. PMID: 36321729; PMCID: PMC9957813.
344. Wang X, Bakulski KM, **Mukherjee B**, Hu H, Park SK. Predicting cumulative lead (Pb) exposure using the Super Learner algorithm. *Chemosphere*. 2023 Jan;**311**(Pt 2):137125. doi:

10.1016/j.chemosphere.2022.137125. Epub 2022 Nov 5. PMID: 36347347; PMCID: PMC10160242.

345. Phung MT, Webb PM, DeFazio A, Fereday S, Lee AW, Bowtell DD, Fasching PA, Goode EL, Goodman MT, Karlan BY, Lester J, Matsuo K, Modugno F, Brenton JD, Van Gorp T, Pharoah PDP, Schildkraut JM, McLean K, Meza R, **Mukherjee B**, Richardson J, Grout B, Chase A, McKinnon Deurloo C, Terry KL, Hanley GE, Pike MC, Berchuck A, Ramus SJ, Pearce CL; Ovarian Cancer Association Consortium. Lifestyle and personal factors associated with having macroscopic residual disease after ovarian cancer primary cytoreductive surgery. *Gynecologic Oncology*. 2023; **168**:68-75. PMID: 36401943.
346. Roberts EK, Boss J, **Mukherjee B**, Salerno S, Zota A, Needham BL. Persistent organic pollutant exposure contributes to Black/White differences in leukocyte telomere length in the National Health and Nutrition Examination Survey. *Scientific Reports*. 2022; **12**(1):19960. doi:10.1038/s41598-022-24316-0. PMCID: PMC9675834.
347. Du J, Zhou X, Clark-Boucher D, Hao W, Liu Y, Smith JA, **Mukherjee B**. Methods for large-scale single mediator hypothesis testing: Possible choices and comparisons. *Genet Epidemiol*. 2023 Mar;**47**(2):167-184. doi: 10.1002/gepi.22510. Epub 2022 Dec 8. PMID: 36465006; PMCID: PMC10329872.
348. Wang X, Ding N, Harlow SD, Randolph JF Jr, **Mukherjee B**, Gold EB, Park SK. Exposure to heavy metals and hormone levels in midlife women: The Study of Women's Health Across the Nation (SWAN). *Environ Pollut*. 2023 Jan 15;**317**:120740. doi: 10.1016/j.envpol.2022.120740. Epub 2022 Nov 24. PMID: 36436662; PMCID: PMC9897061.
349. Boss J, Datta J, Wang X, Park SK, Kang J, **Mukherjee B**. Group Inverse-Gamma Gamma Shrinkage for Sparse Linear Models with Block-Correlated Regressors. *Bayesian Analysis*. 2023 Jan;**1**(1):1-30.
350. Ding N, Zheutlin E, Harlow SD, Randolph JF Jr, **Mukherjee B**, Park SK. Associations Between Repeated Measures of Urinary Phthalate Metabolites With Hormones and Timing of Natural Menopause. *J Endocr Soc*. 2023 Feb 3;**7**(4):bvad024. doi: 10.1210/jendso/bvad024. PMID: 36846211; PMCID: PMC9945847.
351. Fritsche LG, Jin W, Admon AJ, **Mukherjee B**. Characterizing and Predicting Post-Acute Sequelae of SARS CoV-2 Infection (PASC) in a Large Academic Medical Center in the US. *J Clin Med*. 2023 Feb 7;**12**(4):1328. doi: 10.3390/jcm12041328. PMID: 36835863; PMCID: PMC9967320.
352. Shi X, Li KQ, **Mukherjee B**. Current Challenges With the Use of Test-Negative Designs for Modeling COVID-19 Vaccination and Outcomes. *Am J Epidemiol*. 2023 Feb 24;**192**(3):328-333. doi: 10.1093/aje/kwac203. PMID: 36446573; PMCID: PMC10372864.
353. Gu T, Taylor JMG, **Mukherjee B**. A meta-inference framework to integrate multiple external models into a current study. *Biostatistics*. 2023 Apr 14;**24**(2):406-424. doi: 10.1093/biostatistics/kxab017. PMID: 34269371; PMCID: PMC10102901.
354. Salvatore M, Hu MM, Beesley LJ, Mondul AM, Pearce CL, Friese CR, Fritsche LG, **Mukherjee B**. COVID-19 Outcomes by Cancer Status, Site, Treatment, and Vaccination. *Cancer Epidemiol Biomarkers Prev*. 2023 Jun 1;**32**(6):748-759. doi: 10.1158/1055-9965.EPI-22-0607. PMID: 36626383.
355. Higgins Tejera C, Ware EB, Kobayashi LC, Fu M, Hicken M, Zawistowski M, **Mukherjee B**, Bakulski KM. Decomposing interaction and mediating effects of race/ethnicity and circulating blood levels of cystatin C on cognitive status in the United States health and retirement study.

356. Phung MT, An PL, Vinh NN, Le HHTC, McLean K, Meza R, **Mukherjee B**, Lee AW, Pearce CL. A comparative study on behavior, awareness and belief about cervical cancer among rural and urban women in Vietnam. *PLOS Glob Public Health.* 2023 Jun 6;**3**(6):e0001817. doi: 10.1371/journal.pgph.0001817. PMID: 37279208; PMCID: PMC10243615.
357. Ding N, Karvonen-Gutierrez CA, Zota AR, **Mukherjee B**, Harlow SD, Park SK. The role of exposure to per- and polyfluoroalkyl substances in racial/ethnic disparities in hypertension: Results from the study of Women's health across the nation. *Environ Res.* 2023 Jun 15;**227**:115813. doi: 10.1016/j.envres.2023.115813. Epub 2023 Mar 31. PMID: 37004857; PMCID: PMC10227830.
358. Han P, Taylor JMG, **Mukherjee B**. Integrating Information from Existing Risk Prediction Models with No Model Details. *Can J Stat.* 2023 Jun;**51**(2):355-374. doi: 10.1002/cjs.11701. Epub 2022 Apr 15. PMID: 37346757; PMCID: PMC10281716.
359. Kendrick DE, Thelen AE, Chen X, Gupta T, Yamazaki K, Krumm AE, Bandeh-Ahmadi H, Clark M, Luckoski J, Fan Z, Wnuk GM, Ryan AM, **Mukherjee B**, Hamstra SJ, Dimick JB, Holmboe ES, George BC. Association of Surgical Resident Competency Ratings With Patient Outcomes. *Acad Med.* 2023 Jul 1;**98**(7):813-820. doi: 10.1097/ACM.0000000000005157. Epub 2023 Feb 1. PMID: 36724304.
360. Leis AM, Mathis MR, Kheterpal S, Zawistowski M, **Mukherjee B**, Pace N, O'Reilly-Shah VN, Smith JA, Karvonen-Gutierrez CA. Cardiometabolic disease and obesity patterns differentially predict acute kidney injury after total joint replacement: a retrospective analysis. *Br J Anaesth.* 2023 Jul;**131**(1):37-46. doi: 10.1016/j.bja.2023.04.001. Epub 2023 May 13. PMID: 37188560.
361. Kang H, Ding N, Karvonen-Gutierrez CA, **Mukherjee B**, Calafat AM, Park SK. Per- and Polyfluoroalkyl Substances (PFAS) and Lipid Trajectories in Women 45-56 Years of Age: The Study of Women's Health Across the Nation. *Environ Health Perspect.* 2023 Aug;**131**(8):87004. doi: 10.1289/EHP12351. Epub 2023 Aug 8. PMID: 37552133; PMCID: PMC10408595.
362. Bardhan R, Debnath R, **Mukherjee B**. Factor in gender to beat the heat in impoverished settlements. *Nature.* 2023 Aug;**620**(7975):727. doi: 10.1038/d41586-023-02632-3. PMID: 37608008.
363. Yu Y, Zhang M, **Mukherjee B**. An inverse probability weighted regression method that accounts for right-censoring for causal inference with multiple treatments and a binary outcome. *Stat Med.* 2023 Sept; **42**(20):3699-3715. doi: 10.1002/sim.9826. PMID: 37392070.
364. Kim C, Cathey AL, Watkins DJ, **Mukherjee B**, Rosario-Pabón ZY, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Adverse birth outcomes are associated with circulating matrix metalloproteinases among pregnant women in Puerto Rico. *J Reprod Immunol.* 2023 Sept;**159**:103991. doi: 10.1016/j.jri.2023.103991. Epub 2023 Jul 13. PMID: 37454540; PMCID: PMC10726844.
365. Golbus JR, Gupta K, Stevens R, Jeganathan VSE, Luff E, Shi J, Dempsey W, Boyden T, **Mukherjee B**, Kohnstamm S, Taralunga V, Kheterpal V, Murphy S, Klasnja P, Kheterpal S, Nallamotheu BK. A randomized trial of a mobile health intervention to augment cardiac rehabilitation. *NPJ Digit Med.* 2023 Sep 14;**6**(1):173. doi: 10.1038/s41746-023-00921-9. PMID: 37709933; PMCID: PMC10502072.
366. Howard RA, Thelen AE, Chen X, Gates R, Krumm AE, Millis MA, Gupta T, Brown CS, Bandeh-Ahmadi H, Wnuk GM, Yee CC, Ryan AM, **Mukherjee B**, Dimick JB, George BC. Mortality and Severe Complications Among Newly Graduated Surgeons in the United States. *Ann Surg.* 2024

Apr 1;279(4):555-560. doi: 10.1097/SLA.00000000000006128. Epub 2023 Oct 13. PMID: 37830271; PMCID: PMC10939969.

367. George BC, Thelen AE, Howard RA, Kendrick DE, Chen X, Clark MJ, Gupta T, Brown CS, Bandeh-Ahmadi H, Luckoski JL, Wnuk GM, Fan Z, Krumm AE, Ryan AM, Buyske J, **Mukherjee B**, Dimick JB. Evaluating Educational Outcomes Using Patient Outcomes of New Surgeons Performing Partial Colectomy Compared to Cholecystectomy. *Acad Med*. 2023 Nov 1;98(11S):S143-S148. doi: 10.1097/ACM.00000000000005368. Epub 2023 Aug 1. PMID: 37983406.
368. Clark-Boucher D, Zhou X, Du J, Liu Y, Needham BL, Smith JA, **Mukherjee B**. Methods for mediation analysis with high-dimensional DNA methylation data: Possible choices and comparisons. *PLoS Genet*. 2023 Nov 7;19(11):e1011022. doi: 10.1371/journal.pgen.1011022. PMID: 37934796; PMCID: PMC10655967.
369. Phung MT, Lee AW, McLean K, Anton-Culver H, Bandera EV, Carney ME, Chang-Claude J, Cramer DW, Doherty JA, Fortner RT, Goodman MT, Harris HR, Jensen A, Modugno F, Moysich KB, Pharoah PDP, Qin B, Terry KL, Titus LJ, Webb PM, Wu AH, Zeinomar N, Ziogas A, Berchuck A, Cho KR, Hanley GE, Meza R, **Mukherjee B**, Pike MC, Pearce CL, Trabert B. A framework for assessing interactions for risk stratification models: the example of ovarian cancer. *J Natl Cancer Inst*. 2023 Nov 8;115(11):1420-1426. doi: 10.1093/jnci/djad137. PMID: 37436712; PMCID: PMC10637032.
370. Siwakoti RC, Cathey A, Ferguson KK, Hao W, Cantonwine DE, **Mukherjee B**, McElrath TF, Meeker JD. Prenatal per- and polyfluoroalkyl substances (PFAS) exposure in relation to preterm birth subtypes and size-for-gestational age in the LIFECODES cohort 2006-2008. *Environ Res*. 2023 Nov 15;237(Pt 2):116967. doi: 10.1016/j.envres.2023.116967. Epub 2023 Aug 25. PMID: 37634691.
371. Jin W, Hao W, Shi X, Fritsche LG, Salvatore M, Admon AJ, Friese CR, **Mukherjee B**. Using Multi-Modal Electronic Health Record Data for the Development and Validation of Risk Prediction Models for Long COVID Using the Super Learner Algorithm. *J Clin Med*. 2023 Nov 25;12(23):7313. doi: 10.3390/jcm12237313. PMID: 38068365; PMCID: PMC10707399.
372. Grieve R, Yang Y, Abbott S, Babu GR, Bhattacharyya M, Dean N, Evans S, Jewell N, Langan SM, Lee W, Molenberghs G, Smeeth L, Williamson E, **Mukherjee B**. The importance of investing in data, models, experiments, team science, and public trust to help policymakers prepare for the next pandemic. *PLOS Glob Public Health*. 2023 Nov 30;3(11):e0002601. doi: 10.1371/journal.pgph.0002601. PMID: 38032861; PMCID: PMC10688710.
373. Gu T, Taylor JMG, **Mukherjee B**. A synthetic data integration framework to leverage external summary-level information from heterogeneous populations. *Biometrics*. 2023 Dec;79(4):3831-3845. doi: 10.1111/biom.13852. Epub 2023 Apr 4. PMID: 36876883; PMCID: PMC10480346.
374. Fritsche LG, Nam K, Du J, Kundu R, Salvatore M, Shi X, Lee S, Burgess S, **Mukherjee B**. Uncovering associations between pre-existing conditions and COVID-19 Severity: A polygenic risk score approach across three large biobanks. *PLoS Genet*. 2023 Dec 19;19(12):e1010907. doi: 10.1371/journal.pgen.1010907. PMID: 38113267; PMCID: PMC10763941.
375. Meah S, Shi X, Fritsche LG, Salvatore M, Wagner A, Martin ET, **Mukherjee B**. Design and analysis heterogeneity in observational studies of COVID-19 booster effectiveness: A review and case study. *Sci Adv*. 2023 Dec 22;9(51):eadj3747. doi: 10.1126/sciadv.adj3747. Epub 2023 Dec 20. PMID: 38117882; PMCID: PMC10732535.
376. Kundu R, Datta J, Ray D, Mishra S, Bhattacharyya R, Zimmermann L, **Mukherjee B**. Comparative impact assessment of COVID-19 policy interventions in five South Asian countries using reported and estimated unreported death counts during 2020-2021. *PLOS Glob*

Public Health. 2023 Dec 27;3(12):e0002063. doi: 10.1371/journal.pgph.0002063. PMID: 38150465; PMCID: PMC10752546.

377. Salvatore M, Clark-Boucher D, Fritsche LG, Ortlieb J, Houghtby J, Driscoll A, Caldwell-Larkins B, Smith JA, Brummett CM, Kheterpal S, Lisabeth L, **Mukherjee B**. Epidemiologic Questionnaire (EPI-Q) - a scalable, app-based health survey linked to electronic health record and genotype data. *Epidemiol Health*. 2023;45:e2023074. doi: 10.4178/epih.e2023074. Epub 2023 Aug 8. PMID: 37591787; PMCID: PMC10867525.
378. Goutman SA, Boss J, Jang DG, **Mukherjee B**, Richardson RJ, Batterman S, Feldman EL. Environmental risk scores of persistent organic pollutants associate with higher ALS risk and shorter survival in a new Michigan case/control cohort. *J Neurol Neurosurg Psychiatry*. 2024 Feb 14;95(3):241-248. doi: 10.1136/jnnp-2023-332121. PMID: 37758454.
379. Goutman SA, Boss J, Jang DG, Piecuch C, Farid H, Batra M, **Mukherjee B**, Feldman EL, Batterman SA. Avocational exposure associations with ALS risk, survival, and phenotype: A Michigan-based case-control study. *J Neurol Sci*. 2024 Feb 15;457:122899. doi: 10.1016/j.jns.2024.122899. Epub 2024 Jan 23. PMID: 38278093.
380. Zhuang Y, Kim NY, Fritsche LG, **Mukherjee B**, Lee S. Incorporating functional annotation with bilevel continuous shrinkage for polygenic risk prediction. *BMC Bioinformatics*. 2024 Feb 9;25(1):65. doi: 10.1186/s12859-024-05664-2. PMID: 38336614.
381. Zhang G, Beesley L, **Mukherjee B**, Shi X. Patient recruitment using electronic health records under selection bias: a two-phase sampling framework. *Annals of Applied Statistics*. Epub ahead of print. <https://imstat.org/wp-content/uploads/2024/02/AOAS2206-042R2A0-1.pdf>
382. Goutman SA, Boss J, Jang DG, Piecuch C, Farid H, Batra M, **Mukherjee B**, Feldman EL, Batterman SA. Residential exposure associations with ALS risk, survival, and phenotype: a Michigan-based case-control study. *Amyotroph Lateral Scler Frontotemporal Degener*. 2024 Apr 1:1-11. doi: 10.1080/21678421.2024.2336110. Epub ahead of print. PMID: 38557405.
383. Kim C, Cathey AL, Park S, Watkins DJ, **Mukherjee B**, Rosario-Pabón ZY, Vélez-Vega CM, Alshawabkeh AN, Cordero JF, Meeker JD. Associations of maternal blood metal concentrations with plasma eicosanoids among pregnant women in Puerto Rico. *Sci Total Environ*. 2024 Apr 7;928:172295. doi: 10.1016/j.scitotenv.2024.172295. Epub ahead of print. PMID: 38588744.
384. Suthar H, Manea T, Pak D, Woodbury M, Eick SM, Cathey A, Watkins DJ, Strakovsky RS, Ryva BA, Pennathur S, Zeng L, Weller D, Park JS, Smith S, DeMicco E, Padula A, Fry RC, **Mukherjee B**, Aguiar A, Geiger SD, Ng S, Huerta-Montanez G, Vélez-Vega C, Rosario Z, Cordero JF, Zimmerman E, Woodruff TJ, Morello-Frosch R, Schantz SL, Meeker JD, Alshawabkeh AN, Aung MT; Program Collaborators for Environmental Influences on Child Health Outcomes. Cross-Sectional Associations between Prenatal Per- and Poly-Fluoroalkyl Substances and Bioactive Lipids in Three Environmental Influences on Child Health Outcomes (ECHO) Cohorts. *Environ Sci Technol*. 2024 May 14;58(19):8264-8277. doi: 10.1021/acs.est.4c00094. Epub 2024 May 1. PMID: 38691655.
385. Wiens J, Spector-Bagdady K, **Mukherjee B**. Toward Realizing the Promise of AI in Precision Health Across the Spectrum of Care. *Annu Rev Genomics Hum Genet*. 2024 May 9. doi: 10.1146/annurev-genom-010323-010230. Epub ahead of print. PMID: 38724019.
386. Salvatore M, Kundu R, Shi X, Friese CR, Lee S, Fritsche LG, Mondul AM, Hanauer D, Pearce CL, **Mukherjee B**. To weight or not to weight? The effect of selection bias in 3 large electronic

health record-linked biobanks and recommendations for practice. *J Am Med Inform Assoc*. 2024 May 14;ocae098. doi: 10.1093/jamia/ocae098. Epub ahead of print. PMID: 38742457.

387. Kundu R, Shi X, Morrison J, Barrett J, Mukherjee B. A framework for understanding selection bias in real-world healthcare data. *Journal of the Royal Stat Society Series A*. 2024 May 02. <https://doi.org/10.1093/jrsssa/qnae039>
388. Siwakoti RC, Park S, Ferguson KK, Hao W, Cantonwine DE, **Mukherjee B**, McElrath TF, Meeker JD. Prenatal per- and polyfluoroalkyl substances (PFAS) and maternal oxidative stress: Evidence from the LIFECODES study. *Chemosphere*. 2024 May 18;360:142363. doi: 10.1016/j.chemosphere.2024.142363. Epub ahead of print. PMID: 38768789.
389. Park S, Siwakoti RC, Ferguson KK, Cathey AL, Hao W, Cantonwine DE, **Mukherjee B**, McElrath TF, Meeker JD. Associations of urinary polycyclic aromatic hydrocarbon (PAH) metabolites and their mixture with thyroid hormone concentration during pregnancy in the LIFECODES cohort: A repeated measures study. *Environ Res*. 2024 May 21;255:119205. doi: 10.1016/j.envres.2024.119205. Epub ahead of print. PMID: 38782334.
390. Laskaris Z, O'Neill MS, Batterman SA, **Mukherjee B**, Fobil JN, Robins TG. Cross-shift changes in pulmonary function and occupational exposure to particulate matter among e-waste workers in Ghana. *Front Public Health*. 2024 May 9;12:1368112. doi: 10.3389/fpubh.2024.1368112. PMID: 38784567; PMCID: PMC11111984.
391. Yang Y, Dempsey W, Han P, Deshmukh Y, Richardson S, Tom B, **Mukherjee B**. Exploring the Big Data Paradox for various estimands using vaccination data from the global COVID-19 Trends and Impact Survey (CTIS). *Sci Adv*. 2024 May 31;10(22):eadj0266. doi: 10.1126/sciadv.adj0266. Epub 2024 May 31. PMID: 38820165.
392. Golbus JR, Shi J, Gupta K, Stevens R, Jeganathan VSE, Luff E, Boyden T, **Mukherjee B**, Kohnstamm S, Taralunga V, Kheterpal V, Kheterpal S, Resnicow K, Murphy S, Dempsey W, Klasnja P, Nallamothu BK. Text Messages to Promote Physical Activity in Patients With Cardiovascular Disease: A Micro-Randomized Trial of a Just-In-Time Adaptive Intervention. *Circ Cardiovasc Qual Outcomes*. 2024 Jul;17(7):e010731. PMID: 38887953; PMCID: PMC11251861.
394. Higgins Tejera C, Ware EB, Hicken MT, Kobayashi LC, Wang H, Blostein F, Zawistowski M, **Mukherjee B**, Bakulski KM. The mediating role of systemic inflammation and moderating role of racialization in disparities in incident dementia. *Commun Med (Lond)*. 2024 Jul 13;4(1):142. doi: 10.1038/s43856-024-00569-w. PMID: 39003383; PMCID: PMC11246521.
395. Alimujiang A, Strecher V, McLean K, Mondul AM, Pearce CL, **Mukherjee B**. Decomposing the association of psychosocial wellbeing with all-cause mortality: the mediating role of physical health and lifestyle factors. *Soc Psychiatry Psychiatr Epidemiol*. 2024 Jul 23. doi: 10.1007/s00127-024-02717-y. Epub ahead of print. PMID: 39044017.

OTHER ARTICLES

1. **Mukherjee, B**. Evolution of Bayesian Statistics in India, *ISBA bulletin*, Vol 15, No. 3, pp 12-14. (2008).
2. **Mukherjee, B** and Li, Y. Leadership in large-scale collaborative studies: Does gender play a role?, In *Leadership and Women in Statistics*, Edited by Olkin, Golbeck and Gel, Taylor and Francis (2014).

3. **Mukherjee, B** and Dempsey W. Reflecting on “A Statistician in Medicine” in 2020, *Statistics in Medicine*, Vol **40**, No. 1, pp 42-48. (2020).
4. Ray D, Bhattacharyya R, **Mukherjee B**. Discussion on “The timing and effectiveness of implementing mild interventions of COVID-19 in large industrial regions via a synthetic control method” by Tian et al. *Statistics and Its Interface*, Vol **14**, No. 1, pp 25-28. (2021).
5. **Mukherjee B**. In Conversation with Sir David Spiegelhalter and Professor Sylvia Richardson. *Statist. Sci.* 39(1): 209-220 February 2024. DOI: 10.1214/23-STS897 <https://doi.org/10.1214/23-STS897>

RESEARCH FUNDING

CURRENT FUNDING:

1. 1-R25-HL161795-01 (PI Mukherjee): *Transforming Analytical Learning in the Era of Big Data: A Summer Institute in Biostatistics and Data Science*. NIH, \$1,210,165, 07/01/2022-05/31/2027.
2. 1-UG3CA267907-01(PI Dolinoy, Mukherjee, Pearce): *MI-CARES: The Michigan Cancer and Research on the Environment Study*. NCI, \$13,731,793, 09/2021-08/31/2024. Role: MPI.
3. 5R01MD011721-03 (PI Needham): *Race Ethnicity, DNA Methylation and Disparities in Cardiovascular Mortality: NHANES 1999-2001*. NIH, \$3,064,487, 08/16/2017-05/31/2024. Role: Co-Investigator
4. 5P30-CA-046592 (PI Fearon): *Cancer Center Support Grant- Cancer Data Sciences Shared Resource*. NHLBI, \$4,704,994, 06/2023-05/31/2028. Role: Co-Investigator
5. 1 R01 ES030049-01A1 (PI Feldman): *Mapping the ALS Exposome to Gain New Insights into Disease Risk and Pathogenesis*. NIH, \$3,265,535, 09/01/2019-10/31/2024. Role Co-Investigator.
6. 2-P42ES017198-10 (PI Meeker): *PROJECT 1 Puerto Rico Testsite for Exploring Contamination Threats (PROTECT)-Data Core*. NIH, \$326,500, 04/01/2020-03/31/2025. Role: Co-Investigator
7. 1 R01 ES032203-01 (PI Meeker): *Pregnancy Exposures to Chemical Mixtures and Later Metabolic Health and Endocrine Function Among Women in the Puerto Rico PROTECT Cohort*. NIH/NIEHS, \$1,991,852, 08/21/2020-05/31/2025.
8. 1-R01AG070897-01 (PI Park): *The Study of the Environment and Alzheimer’s disease and related Dementias (SEAD)*. NIH, \$3,302, 876, 03/15/2021-02/28/2026, Role Co-Investigator.
9. 1-R01 ES031591 (PI Meeker): *Applying and advancing modern approaches for studying the joint impacts of environmental chemicals on pregnancy outcomes*. NIH, \$3,056,116, 01/2021-10/31/2025, Role Co-Investigator.
10. 1-R01-NS127188 (PI Feldman): *Developing novel strategies for personalized treatment and prevention of ALS: Leveraging the global exposome, genome, epigenome, metabolome, and inflammasome with data science in a case/control cohort*. NIH, \$3,429,869, 09/2021-06/30/2025, Role Co-Investigator.
11. 1-R01-AG074347 (PI Conlon): *Extreme Weather-Related Events and Environmental Exposures in the Risk for Alzheimer’s Disease and Related Dementia*. NIH/UC Davis, \$402,255, 06/15/2022-05/31/2027, Role Co-Investigator.
12. UG3OD023251 (PI Alshawabkeh): *ECHO PROTECT Cohort in Puerto Rico*. NIH/Northeastern University, \$2,972,794, 09/01/2023-08/31/2030, Role Co-Investigator.

PAST FUNDING:

1. H98230-06-1-0033 (PI Mukherjee): Young Investigator Grant: Design and inference for case-control studies. NSA, \$29,983, 08/01/2007-07/31/2008. Role: PI,
2. R03 CA130045-01 (PI Mukherjee): Synergism of Gene and Environment in Cancer Studies: A New Bayesian Approach: NIH/NCI, \$143,680, 8/1/2007-12/31/2009. Role: PI.
3. DMS 07-06935 (PI Mukherjee): NSF Statistical Methodology Grant: Bayesian Analysis for Studies of Gene-Environment Interaction. NSF, \$134,503 9/1/2007-5/31/2010. Role: PI.
4. Elizabeth C. Crosby research award for women faculty in science: Bayesian methods for Haplotype Based Interaction Analysis: Role: PI, NSF/ADVANCE program at the University of Michigan, \$15,000, 2009-2010.
5. NSF DMS-1007494 (PI Mukherjee PI): Collaborative proposal: Case-Control Studies; New Directions and Applications. 6/1/2010-5/31/2012. Role: PI.
6. 1-R03-CA-156608-01 (PI Mukherjee): Two-phase cancer studies of gene-environment interaction: NIH, \$448,252, 7/1/2011-6/31/2013. Role: PI
7. RC0632384UM (PI Mukherjee): great lakes air center for integrative environmental research (GLACIER): EPA (Biostatistics Core), \$176,954, 7/1/2011-6/30/2015. Role: PI and Core Director.
8. R21-ES-020811-01 (PI Mukherjee): Efficient design and analytic strategies for enhancing the power of G X E studies. (this grant was awarded under a special program announcement for Statistical Methods for Gene-Environment Studies across multiple NIH institutes and is co-funded by NCI), \$118,863, 9/1/2012-8/31/2015. Role: PI.
9. M-Cubed Diamond Award (PI Mukherjee): Developing an interactive tool for maternal and child health care monitoring and routine assessment to be used by iKure community health workers. Sponsored by the Trehan Foundation. 3/1/2015-9/1/2016. Role: PI.
10. 1R25-EB-022363-01 (PI Mukherjee): NIH BD2K R25 Courses and skills development grant: Transforming analytical learning in the era of big data: an undergraduate summer institute in biostatistics. NIH, \$445,807, 9/01/2015-8/31/2019, Role: PI.
11. 35-R25-EB-022363-02-S1 (PI Mukherjee): NIH BD2K R25 Courses and skills development grant: Administrative Supplement Request for Transforming analytical learning in the era of big data: an undergraduate summer institute in biostatistics. NIH, \$147,555, 9/30/2015-8/31/2018, Role: PI.
12. Administrative Supplement to P30-CA-046592 (PI Mukherjee): Integrating an Open Repository of Polygenic Risk Scores for Major Cancer Sites with a Visual Catalog. NCI, \$150,000, 09/01/2018-08/31/2020. Role: PI.
13. DMS 14-06712: (PI Mukherjee): Set-based tests for genetic association and gene-environment interaction in longitudinal studies. NSF, \$102,945, 7/1/2014-6/31/2017. Role: PI (multiple PI grant with Min Zhang, University of Michigan).
14. DMS 02-29028 (PI George Casella): Conference in mathematical sciences on functional data. NSF, Bhramar Mukherjee, award amount \$ 19,920. (Funding for the fifth annual winter workshop at the Department of Statistics, University of Florida). 10/01/2002-9/30/2003, Role: Co -PI with Alexandre Trindade.

15. DMS 03-37163 (PI George Casella): Conference in mathematical sciences on data mining and bioinformatics. NSF, award amount \$ 24,120. (Funding for the sixth annual winter workshop at the Department of Statistics, University of Florida). 8/15/2003-8/14/2004, Role: Co-PI Bhramar Mukherjee with Michael Daniels.
16. R01CA081488 (PI Gruber): Molecular Epidemiology of Colorectal Cancer. NIH, \$20,000, 12/01/2004 - 11/30/2009. Role: Co-I.
17. M01 RR000042-46 (PI Kelch): Biostatistical support for general clinical research center. NIH-NCRR, \$160,146 03/01/2006 - 02/28/2011. Role: Co-I.
18. FY 07-3523 (PI Batterman): Asthma Morbidity as EH Indicator of Air Pollution Levels. EPA, \$7,905, 06/01/2007- 05/31/2010. Role: Co-I.
19. R01 ES014677-01A2 (PI Robins): Role of Diesel and Other Vehicular Exhaust in Exacerbation of Childhood Asthma. NIH, \$733, 550, 07/01/2007- 06/30/12. Role: Co-I.
20. RD-83374001 (PI Batterman): Childhood Health Effects from Road Effects and Urban Pollution Burden Study. EPA, \$1,199,500, 03/01/2008-02/28/2011. Role: Co-I.
21. R03-HS017461-01A1 (PI Erickson): Developing a co-morbidity index for health-related quality of life studies. NIH, \$88,206, 09/01/2008-08/31/2009. Role: Co-I.
22. R01-ES-016769-01-A1 (PI Lewis): Interactions of diesel exhaust and respiratory viruses in asthmatic children. NIH/NIEHS, \$6,557, 01/13/2010 to 11/30/2014. Role: Co-I.
23. U19 NCI-895700 (PI Gruber): Trans-disciplinary Studies of Genetic Variation in Colorectal Cancer. 06/1/2010-05/31/2014. NIH/NCI Role: Co-I, Currently PI of the administrative core.
24. R01 HL101161-01A1 (PI Diez Roux): Stress, Gene-Environment Interaction and Cardiovascular Disease. NIH, \$700,527, 07/01/2010 - 06/31/2014. Role: Co-PI
25. R01 ES-018872 (PI Meeker): Bisphenol A and Phthalate Exposure in Relation to Fetal Growth and Preterm Birth. NIH, \$260,360, 07/10/2010-06/13/2015. Role: Co-I.
26. R01-ES019616: (PI Rajagopalan): Environmental triggers of cardiometabolic disease. NIH, \$41,786, 07/01/2011-06/30/2015. Role: Co-I.
27. 2-R01-CA-129102-04 (PI Taylor): Statistical Methods for Cancer Biomarker Discovery and Cancer Risk Prediction. NIH, \$179,097, 01/01/2012-12/31/2015. Role: Co-I.
28. P42 ES-017818-04 (PI Meeker): Phthalate exposure and mechanistic pathway markers in preterm birth among women in Puerto Rico. Northeastern University/NIH, \$10,106, 04/12/2012-03/31/2014. Role: Co-I.
29. 1U01CA162147-01A1 (PI Carethers): Inflammatory differentiation of colorectal cancer among African Americans. NIH, \$1,487,601. 09/01/2012 to 08/31/2017, Role: Co-I.
30. 200-2013-56856 (PI Feldman): Identification and validation of ALS environmental risk factors. CDC, \$527,743, 09/01/2013 to 08/31/2017, Role: Biostatistician.
31. R21-OH-010482-01 (PI Neitzel): Development of a US/Canadian Job Exposure Matrix for Noise. CDC, \$200,099, 09/01/2013 to 08/31/2016, Role: Co-I.
32. 500461-78050 (PI Meeker): Project#1: Molecular epidemiology study of phthalate exposure and preterm birth in Puerto Rico. NIH, \$213,447, 04/01/2014-03/31/2020, Role: Co-I.
33. R34-MH101997 (PI Bauermeister): Development of a tailored HIV prevention intervention for young men. NIH, \$150,000, 12/01/2014-03/31/2018. Role: Co-I.

34. 83563701-0 (PI Batterman): Environmental quality, health and learning in conventional and high performance school buildings. EPA, \$697,684, 11/01/2014-11/19/2018. Role: Co-I.
35. BOE15AMP (PI Boehnke): Accelerating medicines partnership: enhancement of the Type 2 diabetes knowledge portal. Foundation of National Institutes of Health, \$2,232,908, 10/01/2015-8/31/2017. Role: Co-I.
36. 500610-78050 (PI Meeker): Biomarker epidemiology of in utero environmental exposures and child development. Northeastern University/NIH, \$37,788 07/01/2016-08/31/2020. Role: Co-I
37. 505112-78050 (PI Meeker): Biomarker epidemiology of in utero environmental exposures and child development. Northeastern University/EPA, \$20,346, 07/01/2018-06/30/2020. Role: Co-I.
38. 5-R01CA206010-04 (PI Carethers): (PQ3) Immune modulation of DNA mismatch repair in colorectal cancer. NIH, \$238,477, 04/1/2019-03/31/2021. Role: Co-I.
39. 5P30-CA-046592 (PI Fearon): Comprehensive cancer center administrative core grant NIH/NCI, \$4,284,352, 07/13/2018-05/31/2023. Role: Associate Director of Cancer Control and Population Sciences.
40. 1-P30-ES017885-03 (PI Loch-Caruso): Lifestage exposures and adult disease. NIH, \$822,977. 07/01/2011-06/30/2015. Role: Core Director.
41. UL1 RR024986-01 (PI Clauw): Michigan Institute for Clinical and Health Research (MICHR): Clinical and Translational Sciences Award. NIH/NCRR, \$49,463,084, 11/10-2007-10/10/2012. Role: Member of Biostatistics Core.
42. 5P30-CA-046592 (PI Fearon): Comprehensive cancer center core grant: biostatistics core (PI Taylor). NIH, \$4,285,130, 06/01/2018-05/31/2023. Role: Member, Biostatistics Core.
43. EF 0811934 (PI Eisenberg): Collaborative Research: Agricultural Antibiotic and Human Health: A Multiscale Ecological Approach to the Development and Spread of Antibiotic Resistance. NSF, \$351,651. 09/01/2008-08/31/2014. Role: Biostatistics Consultant.
44. UM-Health Disparities Focus RFA (PI Gruber): Discovering new drugs to target Microsatellite Instable Colorectal Cancer using connections between gene expression profiles. UM, \$75,000. 2009-2010. Role: Biostatistics consultant.
45. R01 ES014566-01A1 (PI Parker): A CBPR Intervention for Childhood Asthma Using Air Filters and Air Conditioners. NIH, \$5,355, 04/01/2007-03/31/2012. Role: Biostatistician.
46. N01-CN-43302 (PI Gruber): Preclinical in Vitro and In Vivo Screening Assays for Cancer Preventive Agent Development. NIH, \$7,622, 11/01/2008 - 10/30/2010. Role: Biostatistician.
47. 5P30ES017885-08 (PI Loch-Caruso): Michigan center of life stage environmental exposures and disease. NIH/NIEHS, \$1,045,140 04/1/2019-03/31/2021. Role: Biostatistician.
48. Gilbert Whitaker Stage I grant for Improvement of Teaching. Center for Research, Learning and Teaching, University of Michigan. 5/1/2013-12/31/2014.
49. 20SFRN35370008/20SFRN35360220 (PI Nallamotheu): *Wearables In Reducing Risk and Enhancing Daily Life-style (WIRED-L)-SFRN*. American Heart Association, \$2,500,000, 04/01/2020 03/31/2024.
50. 1-R01-HG008773-01 (PI Mukherjee): *Statistical and computational methods for rare variant association analysis*. NIH, \$1,871,775, 05/17/2016-04/30/2022, Role: PI.

51. 5-R01TS000289-02 (PI: Feldman): *Metabolomic Signatures Linking ALS to Persistent Organic Pollutant Exposures*. CDC, \$1,000,000, 09/30/2018-09/29/2022. Role: Co-Investigator.
52. 5-R01ES026578-04 (PI Park): *Exposure to Multipollutants and Obesity, Type-2 Diabetes and Metabolic Syndrome*. NIH, \$2,447,324, 08/01/2016-04/30/2022. Role: Co-Investigator.
53. 5-R01ES026964-03 (PI Park): *A longitudinal study of endocrine disruptor mixtures and reproductive aging*. NIH, \$2,442,826, 08/01/2016-01/31/2023. Role: Co Investigator.
54. DMS 1712933 (PI Mukherjee): *High Dimensional Mediation Analysis with Multi-Omics Data*. NSF, \$351,765, 09/1/2017-08/31/2023, Role: PI.
 - DMS 1712933-004 (PI Mukherjee): Supplement, High Dimensional Mediation Analysis with Multi-Omics Data. NSF, \$89,269, 09/01/2017-08/31/2023, Role: PI.
 - DMS 1712933-005 (PI Mukherjee): AGEP-GRS Supplement, High Dimensional Mediation Analysis with Multi-Omics Data, NSF, \$82,496, 09/01/2017-08/31/2023. Role: PI.
55. 5R01CA129102-10 (PI Taylor): *Statistical Methods for Cancer Biomarkers*. NIH, \$1,366,355, 01/01/2009-06/30/2022. Role Co-Investigator.
56. 1R01HL141292-02 (PI: Smith): *A Social Epigenomic Approach to Health Disparities in Cardiovascular Risk Factors*. NIH, \$2,878,306, 04/01/2018-03/31/2023. Role: Co-Investigator.
57. 500669-78061 (PI Meeker): *Environmental influences on child health outcomes in Puerto Rico (ECHO-PRO)*. NIH, \$447,187, 09/01/2019-08/31/2023. Role: Co Investigator.
58. 1-R25-HL147207-01 (PI Mukherjee): *Transforming Analytical Learning in the Era of Big Data*. NIH, \$752,922, 03/15/2018-06/30/2022, Role: PI.
59. 2-P42ES017198-10 (PI Meeker): *PROJECT 1 Puerto Rico Testsite for Exploring Contamination Threats (PROTECT)*. NIH, \$50,566, 04/01/2020-03/31/2022. Role: Co-Investigator

SOFTWARE

R-package, kin-cohort: Victor Moreno, Nilanjan Chatterjee and Bhramar Mukherjee, developed in 2007 (available at R-CRAN website).

R-package, LGWAS and LGEWIS for set-based analysis of genetic association and gene-environment interaction in longitudinal studies: Zihuai He, Shawn Lee, Min Zhang and Bhramar Mukherjee, developed in 2015 (available at R-CRAN website).

R-Package, bama, for performing Bayesian mediation analysis in the presence of high-dimensional mediators based on the potential outcome framework: Bhramar Mukherjee, Min Zhang and Xiang Zhou, developed in 2018 (available at R-CRAN website).

R-Package, subgx, for performing p-value assisted subset testing for association: Bhramar Mukherjee, Xiang Zhou, Seunggeun Shawn and Youfei Yu, developed in 2019 (available at R-CRAN website.)

R-Package, snif, for performing Selection of Nonlinear Interactions by a Forward Stepwise Algorithm: Bhramar Mukherjee, Richard Gonzalez, John Meeker, Yin-Hsiu Chen, Naveen Narisetty, and Alexander Rix, developed in 2019 (available at R-CRAN website).

R-Package, Lodi, for imputing observed values below the limit of detection in single-pollutant models via censored likelihood multiple imputation: Seunggeun Shawn Lee, Bhramar Mukherjee, Min Zhang and Jonathan Boss, developed in 2019 (available at R-CRAN website).

R-Package, SAMBA for Selection and Misclassification Bias Adjustment for Logistic Regression Models: Lauren Beesley and Bhramar Mukherjee, developed in 2020 (available at R-CRAN website).

R-package, HiGLASSO, a general framework to identify noteworthy nonlinear main and interaction effects in the presence of group structures among a set of exposures: Jonathan Boss, Alexander Rix and Bhramar Mukherjee, developed in 2020 (available at R-CRAN website)

R-Package, MIselect, for performing variable selection for multiply imputed data: Bhramar Mukherjee and Alexander Rix, developed in 2020 (available at R-CRAN website).

Shiny-App, SAMBA-EHR, for exploring sampling and misclassification biases in associated analyses from GWAS/PheWAS using Electronic Health Records (EHR): Lauren Beesley and Bhramar Mukherjee, developed in 2019, (available at <http://shiny.sph.umich.edu/SAMBA-EHR/>).

PRSwEB: interactive PheWAS results from analyses conducted using Michigan Genomics Initiative and UK Biobank data: Lars G. Fritsche, Snehal Patil, Lauren J. Beesley, Peter VandeHaar, Maxwell Salvatore, Ying Ma, Robert B. Peng, Daniel Taliun, Xiang Zhou and Bhramar Mukherjee, developed in 2019 (available at <https://prswEB.sph.umich.edu:8443/>).

R-Package, MedScan, for performing large-scale, one at a time mediator testing, 2022: (available at R-CRAN website).

R-Package, hdmed, for performing high dimensional mediation analysis, 2022: (available at R-CRAN website).

R-Package, gigg, Bayesian variable selection with correlated predictors, 2022: (available at R-CRAN website)

PLENARY, KEYNOTE AND SPECIAL LECTURES

Plenary Speaker, Methodological and Statistical issues in Gene-Environment Research, University of Georgia, Center for Contextual Genetics and Prevention Sciences, June, 2012.

Eighth annual invited lecture in Biostatistics, Department of Biostatistics, Bioinformatics and Epidemiology, University of California San Francisco, 2014.

Grand Rounds in the Sick Kids Program, University of Toronto, April, 2014.

Special Annual Invited Lecture, Department of Biostatistics and Epidemiology, University of California at San Francisco, May, 2014.

Special Invited Lecture, International Indian Statistical Association Conference, Pune, India, December, 2015.

Oliver Lecturer and Class of 1960 Speaker, Department of Mathematics and Statistics, Williams College, September, 2016.

Keynote speaker: UP-STAT conference, University of Rochester, April, 2018.

Special Invited Lecture, International Indian Statistical Association Conference, Gainesville, May, 2018.

Keynote Speaker, Healthcare Data & Analytics Association Annual Meeting, University of Michigan, October, 2019.

Keynote Speaker, San Francisco Bay Area Chapter of the American Statistical Association, University of California San Francisco, January 2020.

Keynote Speaker, Math Day Symposium, The University of North Carolina at Charlotte, October 2020.

Virtual COVID-19 Plenary Session, Classification and Data Analysis Group (CLADAG) September, 2021.

27th Myra Samuels Memorial Lecture, Department of Statistics, Purdue University, April 2022.
Invited Presentation, RB Memorial Conference, Koita Center for Digital Health, India, April 2022.
Keynote Speaker, Bioconductor Conference, Virtual, July 2022.
Keynote Speaker, ISCB Annual Conference, Newcastle, UK, August 2022.
Keynote Speaker, University of Pittsburgh, Pittsburgh, PA, March 2023.
Moderator and Panelist, Thomas Francis Jr. Medal Ceremony, University of Michigan, March 2023.
Plenary Speaker, AMNS, Pokhara, Nepal, May 2023.
Keynote Speaker, University of Southern California, Los Angeles, Norris Comprehensive Cancer Center Retreat, California, September 2023.
Keynote Speaker, Data Science for Health Equity Conference, University College London, London, UK, November 2023.
Keynote Speaker, Statistical and Machine Learning Applications in Biomedical Sciences Seminar, University of California Irvine, Irvine, California, February 2024.
Keynote Speaker, Workshop on Translational Research on Data Heterogeneity, Washington University St. Louis, St. Louis, Missouri, April 2024.
Henry Seely Lecture, Vassar College, Poughkeepsie, NY, April, 2024.
Marvin Zelen Statistical Leadership Award Lecture, Harvard University, Boston, Massachusetts, May 2024.
Keynote Speaker, Southern Regional Council on Statistics Annual Summer Conference, Clemson University, Clemson, South Carolina, June 2024.
David Sprott Distinguished Lecture, University of Waterloo, Ontario, Canada, June 2024.

INVITED TALKS

P.C. Mahalanobis memorial lecture by selected graduating students, Indian Statistical Institute, Calcutta, India, July 1996.
Seminar organized by diabetic care division, Eli Lilly and Company, July 2000.
Statistics Seminar, Eli Lilly and Company, August, 2000.
Graduate Student Seminar, Purdue University, October 2000.
Statistics Consulting Seminar, Purdue University, November 2000 and March 2001.
Statistics Seminar: University of Florida, January 2001.
Statistics Seminar: Virginia Tech, January 2001.
Statistics Seminar: Rand Corporation, January 2001.
Statistics Seminar: North Carolina State University, February 2001.
Statistics Seminar: Merck Research Labs, February 2001.
Statistics Seminar: Iowa State University, February 2001.

Statistics Seminar: Harvard University, February 2001.

Statistics Seminar: Eli Lilly and Company, February 2001.

Purdue University Technical Assistance Program Seminar, May 2001.

Seminar on optimal design theory, Department of Statistics, Purdue University, December 2001.

Statistics Seminar: Stanford University, July 2002.

New Directions in Experimental Design, Chicago, May 2002.

New Researchers' Conference, UC Davis, July 2003.

Pathways to Future Workshop, San Francisco, July 2003.

Joint Statistical Meetings, San Francisco, August 2003.

IISA conference on Statistics and Probability, May 2004.

Statistics Colloquium, Indian Statistical Institute, Kolkata, July 2004.

Statistics Colloquium, Department of Mathematics, IUPUI, September 2004.

Statistics Colloquium, Department of Health Studies, University of Chicago, October 2004.

Statistics Colloquium, Purdue University, October 2004.

Statistics Colloquium, Texas A & M University, February 2005.

Statistics Seminar, MD Anderson Cancer Research Center, February 2005.

Statistics Colloquium, University of Georgia, April 2005.

ASA Central Indiana local chapter meeting, May 2005.

Joint Statistical Meeting, Minneapolis, August 2005.

Statistics Colloquium, Michigan State University, September 2005.

Biostatistics Seminar, Michigan State University, September 2005.

Statistics Colloquium, University of Connecticut, November 2005.

Biostatistics Colloquium, University of Michigan, January 2006.

Mathematics and Statistics Seminar, Victoria University, Wellington, New Zealand, May, 2006.

Statistics Seminar, University of Auckland, New Zealand, May, 2006.

Weekly Seminar, Division of Cancer Epidemiology and Genetics, The National Cancer Institute, July, 2006.

Joint Statistical Meetings, Seattle, August, 2006.

University of Michigan, Undergraduate Math Club Seminar, November, 2006.

University of Michigan, Dept of Biostatistics, Cancer Research Seminar, November, 2006.

University of Michigan Cancer Center, Cancer Epidemiology Working Group Seminar, December, 2006.

Sixth International Triennial Calcutta Symposium on Probability and Statistics, December, 2006.

IISA conference on Statistics and Probability, January 2007.

Biostatistics Colloquium, University of Minnesota, April, 2007.

WNAR meetings, UC Irvine, June, 2007.

Bayesian Inference for Stochastic Processes (BISP 5), Valencia, June 2007.

Workshop on Nonparametric Bayesian Regression Models, Isaac Newton Institute for Mathematical Sciences, Cambridge, August, 2007.

Current and Future Trends in Non-Parametrics, Columbia, South Carolina, October, 2007.

Michigan Undergraduate Mathematics Conference, MSU, October, 2007.

Department of Biostatistics, UNC, Chapel Hill, February, 2008.

MECC Investigator's meeting: Haifa, Israel, 2008 (Presentation via Web broadcasting).
ENAR, Crystal City, Virginia, 2008.

International Conference on Interdisciplinary Mathematical and Statistical Techniques, Memphis. Tennessee, May, 2008.

WNAR Invited Session, JSM, Denver, Colorado, August, 2008.

Statistics Seminar, University of Windsor, April, 2009.

Biostatistics Colloquium, Boston University, April, 2009.

Environmental Statistics Seminar, Department of Biostatistics, Harvard School of Public Health, April, 2009.

Statistics Colloquium, Harvard University, April, 2009.

JSM, Washington DC, August, 2009.

Seventh International Triennial Calcutta Symposium on Probability and Statistics, December, 2009.

Statistics Seminar, Presidency College, Kolkata, January 2010.

IISA conference on Statistics and Probability, Vizag, January 2010.

Statistics Colloquium, Temple University, Philadelphia, April, 2010.

Biostatistics Colloquium, University of Washington, Seattle, June, 2010.

Statistics Seminar, The Fred Hutchinson Cancer Research Center, Seattle, June, 2010.

Special Biostatistics and Bioinformatics seminar, Institut Catalán d' Oncologica, Barcelona, Spain, July, 2010.

Roundtable luncheon on Bayesian Methods in Genomics, JSM, Vancouver, August 2010.

Statistics Colloquium, Ohio State University, October, 2010.

The Eighth IISA International conference on Probability and Statistics, North Carolina State University, Raleigh, April 21-24, 2011.

Joint Statistical Meetings, Miami Beach, August, 2011.

Workshop on Design issues for Health Studies, Isaac Newton Institute of Mathematical Sciences, August, 2011.

Bioinformatics/Statistical Genetics Seminar, Purdue University, November, 2011.

Statistical Concepts and Methods for the Modern World, Colombo, Sri Lanka, December, 2011.

Contemporary Issues and Application of Statistics, Indian Statistical Institute, Kolkata, January, 2012.

Introductory Seminar on Biostatistics at Public Health Foundation of India, January, 2012
ENAR, Washington DC, March, 2012.

NIEHS, Weekly Seminar, Research Triangle Park, North Carolina, March, 2012.

Biostatistics Colloquium, University of Wisconsin-Madison, April, 2012.

Eighth Purdue international symposium on statistics, June, 2012.

ISBA Meeting, Kyoto, Japan, June, 2012.

Biostatistics Symposium, Beijing, July, 2012.

Joint Statistical Meetings, San Diego, July, 2012.

Roundtable luncheon on Bayesian methods in genetic and environmental epidemiology, JSM, San Diego, July, 2012.

Outstanding Statistics Alumna Seminar, Purdue University, September, 2012.

Biostatistics Colloquium, Department of Preventive Medicine, University of Southern California, November, 2012.

Young Statistician's Meeting, Burdwan University, India, December, 2012.

Eighth International Triennial Calcutta Symposium on Probability and Statistics, December, 2012.

IISA conference in statistics and probability, January, 2013.

ISBA satellite meeting in Varanasi, India, January, 2013.

Statistics Seminar, University of Florida, February, 2013.

Biostatistics Seminar, Emory University, February, 2013.

ENAR Meetings, Orlando, March, 2013.

Rice University, Summer Institute in Statistics, July, 2013.

Department of Biostatistics and Epidemiology, Memorial Sloan-Kettering Cancer Center, July, 2013.

Joint Statistical Meetings, Montreal, August, 2013.

Department of Statistics, Northwestern University, November, 2013.

Ordered Data Analysis, Models and Health Research Methods: An International Conference in Honor of H.N. Nagaraja for His 60th Birthday, Dallas, Texas, March 2014.

ENAR Spring Meetings, Baltimore, Maryland, March 2014.

Midwest Statistics Conference, University of Chicago, March, 2014.

Department of Biostatistics, University of Toronto, School of Public Health, April, 2014.

Invited Panel Member, Annual Health Effects Institute conference, May, 2014.

Invited Panelist, Celebrating women in statistics, North Carolina, May, 2014.

Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data Honoring Professor Malay Ghosh, May, 2014.

International Biometric Conference, Florence, Italy, July 2014.

Bayesian Biostatistics, Zurich, Switzerland, July 2014.

International Indian Statistical Association Conference on Statistics and Probability, Riverside, California, July, 2014.

Student Research Day, Department of Statistics, Biostatistics and Epidemiology, Michigan State University, October, 2014.

Gene-Environment Interaction Satellite Workshop, San Diego, October, 2014.

Biostatistics Seminar, Department of Epidemiology and Biostatistics, George Washington University, November, 2014.

Statistics Seminar, Public Health Foundation of India, New Delhi, December, 2014.

Statistics Seminar, Indian Statistical Institute, New Delhi, December, 2014.

International conference on statistics and its applications, Colombo, Sri Lanka, December, 2014.

Statistics Seminar, Department of Mathematics, University of Maryland College Park, February, 2015.

Roundtable luncheon speaker, invited poster presenter, invited discussant, ENAR Spring Meetings, March, 2015.

Biostatistics Colloquium, Department of Biostatistics and Epidemiology, University of Pennsylvania, April, 2015.

Workshop on Gene-Environment Interaction, Department of Biostatistics, University of Pennsylvania, April 2015.

Annual Meeting of the Society for Epidemiologic Research (SER), Denver, June, 2015.

NIEHS Workshop on Statistical Methods for exposure to environmental mixtures, Durham, July, 2015.

Statistics Colloquium, Division of Biostatistics, UCSF, July, 2015.

Joint Statistical Meetings, Seattle, August, 2015.

Biostatistics Seminar, Department of Biostatistics, Columbia University, August 2015.

Biostatistics Seminar, Department of Biostatistics and Bioinformatics, Georgetown University, October, 2015.

Weekly Colloquium, Department of Mathematics and Statistics, University of South Alabama, November, 2015.

IISA conference on statistics and probability, Pune, December, 2015.

The Second International Conference on Theory and Applications of Statistics, Dhaka, Bangladesh, December, 2015.

Ninth International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, December, 2015.

New England Statistics Symposium, Yale University, April, 2016.

Cancer Control and Population Sciences Seminar Series, Henry Ford Health System, May, 2016.

International Biometrics Society, Brazilian Chapter Meeting, May, 2016.

Workshop on Statistical Methods and Analysis of Environmental Health Data, Mumbai, India, May, 2016.

Gertrude Cox Award Lecture, Washington Statistical Society, June, 2016.

Joint Statistical Meetings, Chicago, July, 2016.

Symposium on Statistical and Computational Methods for Pharmacogenetic Epidemiology of Cancer, Memorial Sloan Kettering Cancer Center, New York, August, 2016.

International Indian Statistical Association Meeting, Corvallis, August, 2016.

Biostatistics Seminar, Dartmouth College, October, 2016.

Biostatistics Seminar, University of North Carolina, Chapel Hill, November, 2016.

Transforming Analytical Learning in the Era of Big Data, National Academy of Sciences, Washington DC, December, 2016.

Interdisciplinary Seminar Series in Quantitative Methods, University of Michigan, February, 2017.

Council of Emerging and New Statisticians invited panel at ENAR Spring Meetings, March, 2017.

Analysis of Biomedical Big Data Workshop, West China Hospital, Sichuan University, Chengdu, May, 2017.

Biostatistics Research Seminar, Vanderbilt University, June 2017.

ISI World Science Congress, Marakech, Morocco, July, 2017.

Building statistical toolbox for cancer research, Dharmas Cancer Center, Jakarta, Indonesia, August, 2017.

ASA Symposium on Statistical Inference, Washington DC, October, 2017.

Women in Statistics and Data Science, La Jolla, October, 2017.

Departmental Colloquium, Biostatistics, McGill University, October, 2017.

Departmental Colloquium, Biostatistics, Emory University, November, 2017.

Departmental Seminar, Biostatistics, University of Pennsylvania, November, 2017.

Program in Quantitative Genetics Seminar, Harvard University, December, 2017.

Conference in Statistics, Colombo, Sri Lanka, December, 2017.

Biostatistics Colloquium, University of Rochester, April, 2018.

Data Science Panel, ASA Chairs Workshop, June 2018.

ISBA World Meeting, Edinburgh, UK, June 2018.

ICSA Conference with the Focus on Data Science, Qindao, China, July 2018

Joint Statistical Meetings, Vancouver, August, 2018.

New York City Exposome Conference, NYC, November, 2018.

Tenth International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India, December 2018.

Biostatistics Seminar Series, University of Birmingham, March, 2019.

Omics in Environmental Health Research Symposium, University of Southern California, March, 2019.

Data Science Seminar, University of Washington, April, 2019.

Statistics Colloquium, University of Connecticut, April 2019.

Graduate Research Day, University of Toronto, April 2019.

Seventh Workshop on Biostatistics and Bioinformatics, Atlanta, May, 2019.

Analysis of Biomedical Big Data Workshop, West China Hospital, Sichuan University, Chengdu, May 2019.

National Academy of Science Workshop on Environmental Health, Machine Learning and AI, Washington DC, June 2019.

Joint Statistical Meetings, Denver, July, 2019.

All India Institute of Medical Sciences, New Delhi, August, 2019.

George Institute of Global Public Health, New Delhi, August, 2019.

Novartis Pharmaceuticals, Hyderabad, August 2019.

Indian School of Business, Hyderabad, August, 2019.

Boston University Symposium on Statistics in Life Sciences and Health, November, 2019.

Departmental Colloquium, University of Chicago, Department of Biostatistics, November, 2019.

IISA conference on Innovations in Data and Statistical Sciences, Mumbai, December 2019.

Data Sciences for Public Health Summit, Columbia University, January, 2020.

Statistics seminar, Texas A&M University, January, 2020.

ENAR Spring Meeting, Nashville Tennessee, via Web, March, 2020.

L. Adrienne Cupples Award Lecture, Boston University School of Public Health, (Virtually) April, 2020.

National Institute of Statistical Sciences (NISS) Virtual Career Fair, April 2020.

National Council of Applied Economic Research (NCAER) Webinar, April 2020.

University of Michigan, India Advisory Board, April 2020.

Webinar, University of Michigan, Michigan Institute for Data Science (MIDAS), May 2020

Webinar, American Association of Physicians of Indian Origins (AAPI), May 2020.

Webinar, Chennai International Centre, May 2020

Webinar, University of Connecticut, May 2020.

University of Michigan Biosciences Symposium, June 2020.

Indian Scientists Response to COVID-19 (ISRC) Online Symposia, June 2020.

Webinar, China Data Institute, July 2020.

The 30th International Biometric Conference, IBC 2020, August, 2020.

Webinar, Barasat Government College, September 2020.

Multi Omics in Environmental Health Workshop, Columbia Mailman School of Public Health, September 2020.

Department Seminar, University of North Carolina at Chapel Hill, September, 2020.

Biostatistics Research and Career Day, McGill University, September 2020.

SAS Day, Oakland University, October 2020.

Biostatistics Seminar, University of Southern Carolina Keck School of Medicine, October 2020.

Statistical Science Seminar, Duke University, October 2020.

Data Science Initiative, Brown University, October 2020.

Conference, Institute for Mathematical and Statistical Innovation (IMSI), University of Chicago, October 2020.

ENAR Webinar Series (WebENARs), November 2020.

Virtual Panel Discussion, Central University of Rajasthan, November 2020.

NIEHS Epidemiology Branch Retreat, December 2020.

ISI 90th Foundation Day, December 2021.

Data Science Colloquium, Chennai Mathematical Institute, January 2021.

Colloquium, College of Literature Science and the Arts, University of Michigan, February 2021.

AAAS Annual Meeting, February 2021.

Department Seminar, MSKCC, February 2021.

Calcutta Statistical Association, February 2021.

Data for Public Good Symposium, University of Michigan, February 2021.

Undergraduate Bioinformatics Conference, University of San Francisco California, February 2021.

Data Science Webinar, COPSS/NISS, March 2021.

Department Seminar, Biostatistics and Bioinformatics, Pennsylvania State College of Medicine, March 2021.

NDPH Symposium, University of Oxford, March 2021.

Invited Speaker, Michigan Institute for Data Science, University of Michigan, April 2021.

Virtual ISPOR, Pre-Release Session, April 2021.

Virtual EMR Conference, April 2021.

Biostatistics Colloquium, Harvard University, April 2021.

Cancer Center Grand Rounds, MD Anderson Cancer Center, April 2021.

Michigan Institute for Computational Discovery and Engineering Symposium, University of Michigan, May 2021.

Center for The Advanced Study of India, Perelman School of Medicine, University of Pennsylvania, May 2021.

Workshop, Indian Institute of Technology, Bombay India, May 2021.

Seminar, Tufts University, Boston MA, May 2021.

Symposium, National Academies of Sciences Engineering and Medicine, June 2021.

WNAR Annual Meeting, June 2021.

Virtual, IISA Invited Session, JSM Annual meeting, August 2021

Virtual, JASA Invited Session, JSM Annual meeting, August 2021

Invited Lecture, Department of Zoology, DBT Star College, West Bengal, India, August 2021

COVID-19 in South Asia Workshop, Center for Contemporary South Asia, Watson Institute, Brown University, September 2021

20th Annual Janet L. Norwood Award Lecture, University of Alabama at Birmingham, September 2021

Invited Lecture, School of Public Policy and Governance Tata Institute of Social Sciences, Hyderabad India, September 2021

Invited Lecture, Indian Institute of Public Health Gandhinagar (IIPHG), India, September 2021

Connecticut Valley Colloquium, October 2021

Invited Lecture, GBDM Chennai-Manila Guest Lecture Series, Pfizer, India, December 2021

Invited Lecture, Annual Conference of the Jindal School of Government and Public Policy, India, December 2021

Invited Lecture, Department of Political Science, Jamia Millia Islamia University, India, January 2022

Virtual Symposium, Centre for Statistical Methodology, Centre for the Mathematical Modelling of Infectious Diseases, Centre for Epidemic Preparedness and Response, London School of Hygiene & Tropical Medicine, United Kingdom, February 2022.

Virtual Ares Seminar, Department of Statistical Sciences and CANSI Ontario, University of Toronto, April 2022.

Virtual Invited Presentation, 2022 Joint Mathematics Meeting, American Mathematical Society, April 2022.

Invited Presentation, UIUC and Purdue Statistics Joint Seminar, University of Illinois Urbana-Champaign, Purdue University, April 2022.

Virtual Invited Lecture, Department of Statistics, Colorado State University, April 2022.

Virtual Invited Seminar, Department of Biostatistics and Data Science (BADs), The University of Texas Health Science Center at Houston, April 2022.

Virtual Invited Presentation, Waterloo Conference in Statistics, Actuarial Science, and Finance, University of Waterloo, April 2022.

Virtual Invited Presentation, The International Lecture Series, The Alan Turing Institute, May 2022.

Virtual Invited Presentation, The Wake Forest 2022 Conference on Analytics Impact, May 2022.

Invited Panelist, New Researchers Conference, George Mason University, August 2022

Virtual Invited Panelist, Workshop on Data Sharing for Good Health & Well-Being: India's Way Forward to Achieving Sustainable Development Goal #3, September 2022

Invited Panelist: National Institute of Statistical Sciences (NISS) Virtual Career Fair, October 2022

Invited Seminar, MRC Biostatistics Unit, University of Cambridge, UK, October 2022

Invited Seminar, Division of Biostatistics, Medical University of Vienna, November 2022

Invited Presentation, A symposium celebrating 50 years of the Cox Model, London School of Hygiene & Tropical Medicine (LSHTM), November 2022

Invited Seminar, Data Science Institute, Universiteit Hasselt, CenStat

Invited Seminar, Department of Biostatistics, University of Warwick, UK, November 2022

Invited Talk and Panel, IISA Annual Conference, Bengaluru, 2022.

Invited Talk, ICHPS, Scottsdale, Arizona, January, 2023.

Keynote talk on Research Day, School of Public Health, Pittsburgh, Pennsylvania, March, 2023.

Webinar, University of Plymouth, Devon, UK, March, 2023.

Invited Talk, Peter Hall Memorial Conference, University of California at Davis, April 2023.

Invited Talk and Panel, Annual meeting of IBS EMR, Turkey (Virtual), May 2023.

Invited Talk, Ashoka University, India, June 2023.

Invited Talk, NIHR Statistics Conference, Sheffield, UK, June 2023.

Dean's Invited Lecture, Brown University, RI, July 2023.

Invited Session, Annual Joint Statistical Meeting, Toronto, Canada, August 2023.

Dean's Invited Lecture, Yale University, CT, August, 2023.

Invited Talk, Women in Statistics and Data Science Conference, Bellevue, WA, October 2023.

Invited Talk, KolGO Trg_2023 Statistical Workshop, Kolkata, India, December 2023.

Invited Talk, Koita Centre for Digital Health at Ashoka University, Sonipat, India, January 2024.

Invited Talk, DukeNUS Statistical Methods Talk, Singapore, March 2024.

Invited Talk, University of Wisconsin Madison Statistics Seminar, Madison, Wisconsin, April 2024.

Invited Talks (General Public and Technical Lectures), Vassar College, Poughkeepsie, New York, April 2024.

Invited Talk and Panel Discussion, WNAR, Fort Collins, Colorado, June 2024.

Invited Talk and Panel Discussion, JSM, August, 2024.

GUEST LECTURES AT THE UNIVERSITY OF MICHIGAN

Epidemiology 818: Methodologic Issues in Cancer Epidemiology, Spring, 2007;

Epidemiology 631: Cancer Prevention Seminar Series, Spring, 2008;

Biostatistics Graduate Spring Open House: Winter, 2008, 2009, 2011; Fall 2013, 2014;

Two-part lecture series on Biostatistics: CTSA Health Services Professional Training Program, University of Michigan, 2008, 2009;

HMP 200: Introduction to Public Health, 2009, 2011, 2012, 2013, 2014;

Biostatistics Students' Brown Bag Seminar, 2010;

Faculty Research Luncheon, School of Public Health, 2010;

Epidemiology 813: Statistical Analysis of Longitudinal Data, 2010;

Genome Sciences Training Program Retreat, 2008, 2011;

Biostat 803: Cancer Seminar, Fall, 2013; Fall, 2015; Fall 2017, Fall 2020.

Epid 698/Biostat 815: Fall 2016, Fall 2021.

Michigan Center on Lifestage Environmental Exposures and Disease (M-LEED), Environmental Research Seminar, Winter 2019.

PH 383 (Undergraduate offering on Data Driven Solutions to Public Health): Winter 2018

Environmental Statistics Discussion Series, Winter 2018, Winter 2019.

Medical Scientist Training Program, Fall, 2019.

Summer Omics Learning Seminar Series, "The Michigan Genomics Initiative: An Integrated Data Frame to Enable Precision Health Queries", Summer, 2019

Users' workshop for the Michigan Genomics Initiative (MGI), December, 2019.

Cancer Quantitative Data Sciences Fall Webinar Series, August, 2021.

Provost's Campus Leadership Program, Leadership Panel "What I Wish I had Known", September 2023.

SHORT COURSES

Bayesian Analysis of Case-Control Data, ASA Continuing Education Short Course offered in JSM, 2006, Seattle. (Joint with Malay Ghosh and Samiran Sinha).

Analysis of Ordinal Categorical Data, ASA Continuing Education Short Course offered in JSM, 2010, Vancouver. (Joint with Alan Agresti).

Quantitative Methods in Genetic Epidemiology (Epid 719), University of Michigan graduate summer session in epidemiology, 2011, 2012. (Joint with Sebastian Zoellner), this is a five-day course with 20 hours of lecture and class work).

A Tutorial on Computational Statistics and Survival Analysis: A two-day short course at the Center for Cancer Epidemiology, Tata Memorial Hospital, Mumbai, 2019.

SERVICE AND COMMITTEE WORK FOR THE PROFESSION

Chair, Committee of Presidents of Statistical Societies (COPSS), 2019-2021.

Board of Trustees, National Institute of Statistical Sciences (NISS), 2018-2020.

Member, Scientific Program Committee, Harvard University School of Public Health Program in Quantitative Genetics, Biobanks: Study Design and Data Analysis, 2018.

Member, Scientific Program Committee, IISA, 2017, Hyderabad, India.

Secretary, ENAR, 2017-2018.

Member, COPSS Presidents' Award Committee, ENAR Representative, 2014-2017.

Member, Scientific Program Committee, annual conference of RBRAS (the Brazilian section of the IBS), 2016.

Member, Scientific Committee, ISBA, Sardinia, Italy, 2016.

Member, Educational Advisory Committee, ENAR Spring Meetings, 2015.

Poster judge, Conference on Women in Statistics and Data Science, 2014.

Member, Scientific Program Committee, Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data: A Conference Honoring Professor Malay Ghosh, 2013-2014.

Elected Member, ENAR Regional Committee (RECOM), 2012-2014.

Overall Program Chair, ASA, Joint Statistical Meetings, Montreal, 2013.

Member, ASA Committee on Meetings, 2012-2014.

Member, ENAR Distinguished Student Paper Award Committee, 2011-13.

Member, Organizing Committee, Midwest Statistics Research Conference, April, 2011.

Member, Scientific Program Committee, International Conference on Probability, Statistics and Data Analysis, IISA, 2011.

Chair, Poster Award Committee, IISA, 2011.

Appointed Member, Regional Advisory Board (RAB) of ENAR, 2010-12.

Secretary/Treasurer, The Committee of Presidents of Statistical Societies (COPSS), 2010-12.

Member, JSM Program Committee, ENAR Representative, 2011.

Member, SBSS Student Paper Award Committee, 2010.

Member, ENAR junior researchers' workshop planning committee, 2009-2012.

Member, ASA Section on Statistics in Epidemiology, Young Investigator and Graduate Student Travel Awards Committee, 2009.

Appointed Member, American Statistical Association Committee on Membership Retention and Recruitment, 2010-2012.

Treasurer/Secretary elect, ASA Section on nonparametric statistics, 2008-2010.

Member, JSM Program Committee, as Program Chair of International Indian Statistical Association, 2009.

Executive Board Member and Program Chair, International Indian Statistical Association, 2007-2009.

Member, Student Paper Award Committee, IISA conference, University of Connecticut, 2008.

Member, David P. Byar award committee, ASA, Biometrics section, 2007.

Appointed Member, American Statistical Association Committee on Minorities in Statistics, 2004-2006.

Executive Board Member and Director of Young Professional Statisticians in International Indian Statistical Association, 2003-2004.

SESSIONS ORGANIZED AT PROFESSIONAL MEETINGS

Organizer, Invited session on "Recent Statistical Advances in Cancer Research", JSM 2004.

Organizer and Chair, Session on "Survival Skills for Young Researchers", IISA conference on Probability and Statistics, University of Georgia, 2004.

Organizer, Student Paper Competition (Theory and Methods category), IISA conference, University of Georgia, 2004.

Organizer and Chair, Invited Session on "Recent Advances in Statistical Methods for Genetic Epidemiology", ENAR 2006.

Organizer, Invited Session on "Complex Sampling Designs and Related Inference Issues in Epidemiological Studies", JSM 2006.

Organizer and Chair, Invited Session on "Statistical Challenges in Analyzing Highly Stratified Data", JSM 2006.

Organizer and Chair, Invited Session on "Bayesian Methods in Epidemiology", ENAR 2008

Organizer and Chair, Invited Session on "Statistical challenges in large-scale genetic and genomic studies", JSM, 2008

Organizer, Invited Session on "Bayesian Nonparametrics: New Directions and Novel Applications" IISA, 2008.

Organizer, Invited Session on "Bayesian Nonparametrics", IMS-Asian Pacific Rim Meeting, Seoul, 2009.

Organizer and Chair, Invited Session on "Emerging Statistical Challenges in Cancer Research", JSM, 2009.

Organizer and Chair, Invited Session on "New frontiers of statistical genetics: Fresh perspectives", IISA conference on probability and statistics, Vizag, 2010.

Organizer and Chair, Invited Session on "Analysis of high-dimensional data in genomic/epidemiologic studies." IISA conference on probability and statistics, North Carolina State University, 2011.

Organizer, Invited session on "Shrinkage and Empirical Bayes", JSM 2012.

Organizer, Invited panel on "Career after graduation with a degree in statistics", JSM 2012.

Organizer, Invited session on Bayesian Methods for Biomedical Research, ISBA conference, Banaras Hindu University, 2013.

Organizer, Invited session on Statistical Methods for Cancer Research, IISA conference on probability and statistics, Chennai, 2013.

Organizer, Introductory Overview Lecture on Next Generation Bioinformatics and Beyond: JSM 2013.

Organizer, Invited session on "Statistical Methods for High Dimensional Data: Presentation by Junior Researchers", JSM, 2013.

Organizer, Invited session on "Inside the biostatistical collaborative process", ENAR, 2014.

Organizer, Invited session on "Meta-analysis of gene-environment interactions", ENAR, 2014.

Organizer, Invited session on "The Role of Big Data in Environmental and Spatial Statistics", JSM, 2014.

Organizer, Invited session on "Showcasing work by young researchers in high-dimensional statistics", IASSL, Sri Lanka, 2014.

Organizer, Invited session on "Statistical methods in modern epidemiology", IASSL, Sri Lanka, 2014.

Organizer, Invited session on "Doing Data Science: Straight talk from the front line", ENAR, 2015.

Organizer, Invited session on "Statistical Methods for Next Generation Sequencing Studies", IISA, 2016.

Organizer, Special Invited Presentation, Committee of Presidents of Statistical Societies: Eugenics and Its Intersection with Statistics and Society Over Time: A Conversation, JSM 2020.

SERVICE AND COMMITTEE WORK AT HOME INSTITUTION

University of Florida: 2002-2006

Member, Organizing Committee, Sixth annual winter workshop, 2004.

Member, Organizing Committee, Fifth annual winter workshop, 2003.

Member, CLAS New Faculty Search Committee, 2003.

Member, IFAS New Faculty Search Committee, 2004.

Member, Graduate Admissions Committee, 2003-06.

Colloquium Coordinator, 2003-2004.

Organizer, Challis Lectureship Award, 2005.

University of Michigan: 2006-2024.

DEPARTMENT LEVEL:

Member, Student Affairs/ Alumni Relations Committee, 2006.

Member, Biostatistics New Faculty Search Committee, 2006-10.

Member, Biostatistics Candidacy Examination Committee, 2008.

Member, Biostatistics Curriculum Committee, 2008-10, 2013-2014, 2017-2018.

Chair, Biostatistics Curriculum Committee, 2010-11, 2014-2015.

Member, Biostatistics chair search committee, 2010.

Member, 50/60 Conference Organizing Committee, Biostatistics, 2009.

Member, New Faculty Search Committee, Epidemiology, 2010.

Member, Graduate Student Admissions Committee, Biostatistics, 2011-12.

Member, Organizing committee, A symposium in honor of Professor Jack Kalbfleisch, 2012.

Member, Committee on Endowment, Biostatistics, 2012-2013.

Member, Cancer Epidemiology Faculty Search Committee, Epidemiology, 2013.

Member, Genomics Faculty Search Committee, Biostatistics, 2014.

Member, Ad Hoc Chair Search Committee, Biostatistics, 2014.

Member, Kidney Epidemiology and Cost Center (KECC) Faculty Search Committee, Biostatistics, 2015.

Chair, Junior Faculty Search Committee, Biostatistics, 2016.

Member, Junior Faculty Search Committee, Epidemiology, 2016.

Member, Open Rank Faculty Search Committee, Biostatistics, 2017.

Member, Kidney Epidemiology and Cost Center (KECC) Research Faculty Search Committee, Biostatistics, 2017.

Member and Co-Chair, Organizing Committee, Biomedical Statistical Modeling: A conference in honor of Jeremy MG Taylor, 2016-2017.

Member, Biostatistics faculty search committee, 2018.

Member, Biostatistics Award and Nomination Committee, 2018-2020.

Member, Biostatistics Curriculum Committee, 2018.

Co-Chair, Committee on developing a MS track in Health and Data Science, 2018-2019.

SCHOOL LEVEL:

Member, Diversity Committee, School of Public Health, 2009-11.

Co-Chair, Diversity Committee, School of Public Health, 2011-12.

Member, Celebration Committee for Ken Warner's Term as a Dean, 2010.

Member, School Committee on Global Public Health, 2011-12.

Service on academic misconduct review panel, Office of academic affairs, School of Public Health, 2012.

Member, Advisory Committee on Academic Programs (ACAP), 2013-2015.

Member, Retained organization working group, 2013-2014.

Member, Global Public Health Faculty Advisory Committee, 2014-2016.

Co-Chair, SPH India Interest Group, 2014-2015.

Member, Global Public Health Professorship Advisory Committee, 2014-2015.

Member, SPH 75th Anniversary Celebration Committee, 2016.

Member, SPH Dean Search Advisory Committee, 2017.

Biostatistics representative to Deans and Chairs committee, 2018-2024.

INSTITUTIONAL LEVEL:

Member, Center for Statistical Consulting and Research (CSCAR) Executive Committee, 2016-2018.

Member, School of Nursing Oncology Senior Faculty Search Committee, 2016-2017.

Member, Quantitative Methods in Social Sciences Curriculum Revision Committee, 2016-2017.

Member, Rackham Faculty Recognition Award Committee, 2017-2019.

Member, Global Health Equity Initiative (M-Globe) Visioning Committee, 2019-2020.

Member, Institute of Social Research, Director Search Advisory Committee, 2020.

Member, Information Technology Council Faculty Representative, 2019-2020

Member, Thomas Francis Jr. Medal Selection Committee, 2022-2023.

Vice Chair, AI Resources/Key Investments Committee, OVPR, 2023-2024.

Member, High Performance Computing Committee (HPCC), OVPR, 2023-2024.

Member, Rackham Distinguished University Professor Selection Committee, 2023-2024.

MICHIGAN INSTITUTE OF DATA SCIENCE:

Chair, Faculty Engagement and Recruitment Committee, 2017-2018.

UNIVERSITY OF MICHIGAN ROGEL CANCER CENTER:

Member, Search committee for a senior faculty in Cancer Epidemiology and for Associate Director of Cancer Prevention and Control at the University of Michigan Rogel Cancer Center, 2012.

Member, Senior Leaders Committee, Executive Leaders Committee, Internal Advisory Committee, Committee on Space Allocation, Committee on Shared Resource Services, Committee on Education and Training, Committee on Cancer Informatics. 2016-

Yale University: 2024-

Yale School of Public Health, Senior Leadership Team, 2024-

Discovery Planning Group, YSPH Representative, Campus Planning Initiative, 2024

DISSEERTATON COMMITTEES

University of Florida: 2002-2006

Tyson G. Brown Department of Sociology, Member, Master's thesis committee, (2003).

Zhaojie Wang Department of Statistics Member, Master's thesis committee, (2003).

Lynette Bardolf Department of Audiology, Member, Doctoral committee (2004-06).

Jangyul Kim Department of Journalism and Mass Communications, Doctoral committee (2005-06)

University of Michigan: 2006-

Kristin Meyers Epidemiology, Member, Ph.D. Dissertation committee, (2007-2009).

Ali Kamal Environmental Health Sciences (EHS), Member, Ph.D. Dissertation committee, (2007-2009).

David Cantonwine EHS, Member, Ph.D. Dissertation committee, (2007-2009).

Laila Poisson Biostatistics, Member, Ph.D. Dissertation committee, (2008-2009).

Ying Guo Biostatistics, Member, Ph.D. Dissertation committee, (2009-2010).

Huang-Tz Ou Pharmacy, Member, Ph.D. Dissertation committee, (2009-2010).

Yoon-Hyeong Choi EHS, Member, Ph.D. Dissertation committee, (2008-2011).

Paula Johnson EHS, Member, Ph.D. Dissertation committee, (2009-2012).

Kathleen Bush EHS, Member, Ph.D. Dissertation committee, (2009-2011).

Jian Kang Biostatistics, Member, Ph.D. Dissertation committee, (2009-2011).

Kelly M. Baklusk EHS, Member, Ph.D. Dissertation committee, (2009-2012).

Feng-Ciao Su EHS, Member, Ph.D. Dissertation committee, (2009-2013).

Darlene Bhavnani Epidemiology, Member, Ph.D. Dissertation committee, (2010-2012).

Erin Bakshis Epidemiology, Member, Ph.D. Dissertation committee, (2010-2013).

Robert William Kononowech EHS, Member, Ph.D. Dissertation committee, (2011-2012).

Kari Sant EHS, Member, Ph.D. Dissertation committee, (2011-2012).

Kelly Ferguson EHS, Member, Ph.D. Dissertation committee, (2011-2014).

Chun-Yi Wu Epidemiology, Member, Ph.D. Dissertation committee, (2011-2012).

Stephanie Stenzel Epidemiology, Member, Ph.D. Dissertation committee, (2012-2013).

Erin Payne Epidemiology, Member, Ph.D. Dissertation committee, (2012-2013).

Juan Shen Statistics, Member, Ph.D. Dissertation committee, (2012-2014).

James Couch EHS, Member, Ph.D. Dissertation committee, (2013-2015).

Zhuqing Liu Biostatistics, Member, Ph.D. Dissertation committee, (2013-2014).

Krystin Karlson EHS, Member, Ph.D. Dissertation committee, (2013-2014).

Mark Reppell Biostatistics, Member, Ph.D. Dissertation committee, (2013-2014).

Abram Wagner Epidemiology, Member, Ph.D. Dissertation committee, (2013-2015).

Andre Oliviera Markon Epidemiology, Member, Ph.D. Dissertation committee, (2014).

Nhat Ho	Statistics, Member, Ph.D. Dissertation committee, (2014-2017).
Ritabrata Das	Biostatistics, Member, Ph.D. Dissertation committee, (2014-2015).
Lauren Johns	EHS, Member, Ph.D. Dissertation committee, (2015-2017).
Ben Roberts	EHS, Member, Ph.D. Dissertation committee, (2015-2017).
Paola Filigrana Villegas	Epidemiology, Member, Ph.D. Dissertation committee, (2015-2018).
Sayantan Das	Biostatistics, Member, Ph.D. Dissertation committee, (2015-2017).
Kristen Brown	Epidemiology, Member, Ph.D. Dissertation committee, (2014-2017).
Sonia Hegde	Epidemiology, Member, Ph.D. Dissertation committee, (2016-2018).
Amira Akeer	EHS, Member, Ph.D. Dissertation committee, (2016-2019).
Naveen N Narisetty	Statistics, Member, Ph.D. Dissertation committee, (2015-2016).
Vivienne Hazzard	Nutritional Sciences, Member, PhD Dissertation committee (2016-2019).
Max Aung	EHS, Member, PhD Dissertation committee (2016-2019).
Thomas Gonzalez	EHS, Member, PhD Dissertation committee (2016-2018).
Weiye Wang	Epidemiology, Member, PhD Dissertation committee (2016-2018).
Marco Benedetti	Biostatistics, Member, PhD Dissertation committee (2016-2018).
Xin Wang	EHS, Member, PhD Dissertation committee (2017-2020).
Ning Ding	EHS, Member, PhD Dissertation committee (2017-2020).
Zoey Laskaris	Epidemiology, Member, PhD Dissertation committee (2017-2020)
Pahriya Ashrap	EHS, Member, PhD Dissertation committee (2018-2020).
Amber Cathey	EHS, Member, PhD Dissertation committee (2018-2020).
Lan Luo	Biostatistics, Member, PhD Dissertation committee (2018-2020).
Katharine Brieger	Epidemiology, Member, PhD Dissertation committee (2019-2020)
Lu Xia	Biostatistics, Member, PhD Dissertation committee (2018-2020).
Wei Hao	Biostatistics, Member, PhD Dissertation committee (2019-2021).
Abhay Hukku	Biostatistics, Member, PhD Dissertation committee (2020-2021)
Tung Phung	Epidemiology, Member, PhD Dissertation committee (2019-2022)
Aleda Leis	Epidemiology, Member, PhD Dissertation committee (2019-2022)
Viktoryia Kalesnikava	Epidemiology, Member, PhD Dissertation committee (2019-2022)
Mia Peng	Epidemiology, Member, PhD Dissertation committee (2019-2022)
Aliya Alimujiang	Epidemiology, Member, PhD Dissertation committee (2019-2022)

Cesar Higgins Tejera	Epidemiology, Member, PhD Dissertation committee (2020-)
Guangyu Yang	Biostatistics, Member, PhD Dissertation committee (2020-2022)
Yuqi Zhai	Biostatistics, Member, PhD Dissertation committee (2021-2022)
Boya Zhang	Epidemiology, Member, PhD Dissertation committee (2021-2022)
Mengbing Li.	Biostatistics, Member, PhD Dissertation committee (2022-)
Soumik Purakayastha	Biostatistics, Member, PhD Dissertation committee (2023-2024)
Yichen Si	Biostatistics, Member, PhD Dissertation committee (2022-2023)
Ram Siwakoti	Environmental Health Sciences, Member, PhD Dissertation committee (2022-)
Shannon Park	Environmental Health Sciences, Member, PhD Dissertation committee (2023-)
Harry Momo	Epidemiology, Member, PhD Dissertation committee (2023-)
Savannah Sturla	Environmental Health Sciences, Member, PhD Dissertation committee (2023-)
Haley Jenkins	Environmental Health Sciences, Member, PhD Dissertation committee (2023-)

Invited External Member of a Dissertation Committee

Yanyan Zhu	Department of Biostatistics, Boston University, Member, Ph.D. Dissertation committee, (2009-2011)
------------	---

DOCTORAL STUDENTS

University of Florida: 2002-2006

1. Samiran Sinha, (Ph.D. 2004; Co-chair with Malay Ghosh) Professor, Department of Statistics, Texas A & M University.
2. Li Zhang, (Ph.D. 2006; Co-chair with Malay Ghosh) Professor, Division of Hematology and Medical Oncology Department of Medicine UCSF Helen Diller Family Comprehensive Cancer Center and Department of Epidemiology and Biostatistics University of California, San Francisco.
3. Upasana Santra, (Ph.D. 2007; Co-chair with Malay Ghosh), Lecturer, Valencia Community College, Florida.

University of Michigan: 2006-

4. Jaeil Ahn, (Ph.D. 2011; Co-chair with Timothy Johnson), Associate Professor, Georgetown University, Division of Biostatistics and Bioinformatics.
5. Philip Simon Boonstra, (Ph.D. 2012; (Co-chair with Jeremy MG Taylor). Associate Professor, Department of Biostatistics, University of Michigan.
6. Shi Li, (Ph.D. 2013) Statistician at Genentech, California.
7. Yi-An Ko, (Ph.D. 2014), Research Associate Professor, Department of Biostatistics, Emory University.

8. Zhichao Sun, (Ph.D. 2016; Co-chair with Thomas Braun). Senior Biostatistician at Boehringer Ingelheim Pharmaceuticals, Connecticut.
9. Zihuai He, (Ph.D. 2016; Co-chair with Min Zhang), Research Assistant Professor, Neurology & Neurological Sciences, Research Assistant Professor, Medicine - Biomedical Informatics Research, Stanford University.
10. Yin-Hsiu Chen, (Ph.D, 2017) Quantitative/Data Analyst, Google Inc, California.
11. Wenting Cheng, (Ph.D, 2017; Co-chair with Jeremy MG Taylor). Statistician, Biogen Inc, Boston, Massachusetts.
12. Yanyi Song, (Ph.D, 2020; Co-chair with Xiang Zhou). Data Scientist at Facebook/Meta.
13. Zhongsheng Chen, (Ph.D 2020; Co-chair with Michael L Boehnke). Senior Biostatistician II, Vertex, Boston Massachusetts.
14. Zhangchen Zhao, (Ph.D, 2021; Co-chair with Shawn Lee). Statistician, Eli Lilly & Co.
15. Tian Gu, (Ph.D., 2021) Co-chair with Jeremy MG Taylor). Assistant Professor in Biostatistics, Columbia University, Mailman School of Public Health.
16. Youfei Yu, (Ph.D., 2021; Co-chair with Min Zhang). Biostatistics Manager, Amgen Inc.
17. Yongwen Zhuang, (Ph.D, 2022, Co-chair with Shawn Lee). Biostatistician, Illumina Inc.
18. Jonathan Boss, (Ph.D, 2023, Co-chair with Jian Kang). Biostatistician, Eli Lilly & Co.
19. Maxwell Salvatore, (Ph.D, 2024, Co-chair with Leigh Pearce) Post-doctoral fellow, Division of Biostatistics, Epidemiology and Informatics, University of Pennsylvania School of Medicine.
20. Jiacong Du, (Co-chair with Xu Shi).
21. Ritoban Kundu, (Co-chair with Peter Song)
22. Youqi Yang (Co-chair with Walter Dempsey)

GRADUATE STUDENT RESEARCH ASSISTANTS SUPERVISED

University of Michigan: 2006-

Jaeil Ahn (2007-2008), Xi Xia (2007-2008), Nabihah Tayob (2008-2009); Fei Wang (2008-2011); Shi Li (2008-2009); Ye Yang (2010-2011); Zhichao Sun (2011-2013); Jie Zhou (2011); Hui-yu Yang (2012); Matthew O'Connor (2012); Yebin Tao (2012-2014); Zihuai He (2013-2016); Zhichao Sun (2011-2016); Yin-Hsiu Chen (2013-2017); Sarah Scarlett (2013-2014); Greyson Liu (2015-2016); Miao Wang (2016-2017); Zhangchen Zhao (2016); Jingyi Zhai (2016); Lu Xia (2016); Jonathan Boss (2016-); Youfei Yu (2016-); Vivian Xia (2018); Ryan Ross (2018); Robert Peng (2018); Jiacong Du (2019-2020); Chen Chen (2021-2022); Spencer Hauptert (2021-)2022; Ritoban Kundu (2021-); Lauren Zimmermann (2021-2022) Youqi Yang (2021-); Sabir Meah (2021-2023); Weijia Jin (2021-2023), Lillian Rountree (2023-), Yi-Ting Lin (2023-) Kalpana Das (2024-).

POST DOCTORAL FELLOWS

University of Michigan: 2006-

Jason P Estes (PhD in Biostatistics, UCLA), 2016-2017. Statistician at Google Inc.

Lauren Beesley (PhD in Biostatistics, University of Michigan), 2018-2021. Feynman Distinguished Postdoctoral Fellow (2021-2023); Staff Scientist/Statistician (2023-) Analytics, Intelligence and Technology Division: Information Systems and Modeling, Los Alamos National Laboratory.

Max Aung (PhD in Environmental Health Sciences, University of Michigan), 2019-2020. Assistant Professor, University of Southern California, KECC School of Medicine.

TEACHING EXPERIENCE

- 1996 Course: Algebra and Trigonometry for freshmen.
Purdue University, Dept. of Mathematics
- 1997, 1998,
2001 Course: Probability for management students.
Purdue University, Dept. of Statistics
- 1997 Course: Probability and Basic Statistics for math education majors.
Purdue University, Dept. of Statistics
- 1999, 2001 Course: Regression Analysis and other Multivariate Methods for graduate students in other disciplines. Purdue University, Dept. of Statistics
- 2001 Course I: Introduction to Experimental Statistics (I) for graduate students in other disciplines.
Course II: A Data-oriented Introduction to Basic Statistics for undergraduate mathematics and actuarial Sciences majors.
Purdue University, Dept. of Statistics
- 2002, 2004 Course: Statistical Methods for Social Sciences II.
University of Florida, Dept. of Statistics
- 2002, 2003,
2005 Course: Statistical Methods for Social Sciences I
University of Florida, Dept. of Statistics
- 2004 Introduction to Experimental Statistics (I) for graduate students in other disciplines.
(Distance learning course, lectures broadcast via television network).
Purdue University, Dept. of Statistics
- 2005 Introduction to Experimental Statistics (II) for graduate students in other disciplines.
(Distance learning course, lectures broadcast via television network).
Purdue University, Dept. of Statistics
- 2006, 2007 Introduction to Biostatistics and Applied Biostatistics for graduate students in the school of public health
- 2008, 2011 (large service course for Master's level students in public health).
University of Michigan, Dept. of Biostatistics
- 2009 Categorical Data Analysis. (For MS and PhD in Biostatistics)
University of Michigan, Dept. of Biostatistics
- 2014 Genetic associations and interactions (Special topics Ph.D. level course for doctoral students in Biostatistics, Statistics and Bioinformatics).
University of Michigan, Dept. of Biostatistics

- 2017, 2019. Modern Statistical Methods for Epidemiological Studies (An advanced methods course for doctoral students in Epidemiology and MS students in Biostatistics.)
- 2021 University of Michigan, Dept. of Biostatistics and Epidemiology
- 2010,2011 Biostatistical Investigations, Project based capstone course for MS Biostatistics.
2016,2018. University of Michigan, Dept. of Biostatistics
2022, 2023
- 2023 Seminal controversies in Statistics, PhD Elective,
University of Michigan, Dept. of Biostatistics

SPECIAL EDUCATIONAL INITIATIVE AND OUTREACH

Founding Director, 2015-Present: Undergraduate Summer Institute in Biostatistics: Transforming Analytical Learning in the Era of Big Data, A summer institute designed to train undergraduate students interested in data science. <http://bigdatasummerinstitute.com>, A SIBS program since 2019. During the last seven years, this summer institute has trained 326 students with 165 female trainees (51%) and 52 underrepresented minority students (16%), recruited internationally.

- 2021 Online Nature Masterclasses Courses: *Data Analysis: Planning and Preparing* and *Data Analysis: Conducting and Troubleshooting*.
- 2023 Massive Open Online Courses (MOOC): *Linear Regression Modeling for Health Data* and *Logistic Regression and Prediction for Health Data*. With Phil Boonstra, in Coursera.

MEDIA MENTIONS SUMMARY

Dr. Mukherjee's COVID-19 research on India has received numerous mentions in respected media outlets including but not limited to the BBC News, NPR, Reuters, the New York Times, The Hindu, The Times of India, The Wire, The Quint, Bloomberg News, The New Yorker, The Australian Broadcasting Company, Der Spiegel, The Wall Street Journal, and the Washington Post. She has appeared in more than 100 television shows including CNN, BBC World, India Today, NDTV, National Television of Singapore and the AM show in New Zealand. A more comprehensive list can be found on the media page of the Center for Precision Health Data Science Website. <https://sph.umich.edu/precision-health-data-science/news/media.html>. Following is a summary to reflect the volume of media mentions.

- 2020** Total Coverage: 1,043
Total Reach: 5.8 Billion
Average Reach per Media Clip: 5.56 Million
- 2021** Total Coverage: 5,881
Total Reach: 18 Billion
Average Reach per Media Clip: 3 Million
- 2022** Total Coverage: 430
Total Reach: 2.5 Billion
Average Reach per Media Clip: 6.2 Million
(As of 5/2/2022)