

Youqi Yang

PHD CANDIDATE · DEPARTMENT OF BIostatISTICS · UNIVERSITY OF MICHIGAN

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Education

University of Michigan

DOCTOR OF PHILOSOPHY IN BIostatISTICS

- Advisors: Dr. Bhramar Mukherjee and Dr. Walter Dempsey

Ann Arbor, MI

August 2023 - present

University of Michigan

MASTER OF SCIENCE IN BIostatISTICS

- Advisor: Dr. Thomas Braun

Ann Arbor, MI

August 2021 - April 2023

Tsinghua University

BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCE

- Advisor: Dr. Xun Lan

Beijing, China

August 2017 – June 2021

University of California, Berkeley

SUMMER SESSION

Berkeley, CA

July 2019 – August 2019

Professional Experience

Graduate Student Research Assistant

DEPARTMENT OF BIostatISTICS AT UNIVERSITY OF MICHIGAN

- Advisor: Dr. Bhramar Mukherjee

Ann Arbor, MI

May 2022 - present

Research Assistant

DEPARTMENT OF COMPUTATIONAL MEDICINE AND BIOINFORMATICS AT UNIVERSITY OF MICHIGAN

- Advisor: Dr. Lana Garmire

Ann Arbor, MI

May 2022 - August 2022

Undergraduate Research Assistant

DEPARTMENT OF BASIC MEDICAL SCIENCES AT TSINGHUA UNIVERSITY

- Advisor: Dr. Xun Lan

Beijing, China

August 2019 – June 2021

Publications

PEER-REVIEWED

Grieve, R., **Yang, Y.**, Abbott, S., Babu, G. R., Bhattacharyya, M., Dean, N., Evans, S., Jewell, N., Langan, S. M., Lee, W., Molenberghs, G., Smeeth, L., Williamson, E., and Mukherjee, B. (2023). The importance of investing in data, models, experiments, team science, and public trust to help policymakers prepare for the next pandemic. *PLOS Global Public Health*, 3(11), e0002601. <https://doi.org/10.1371/journal.pgph.0002601>

Yang, Y., Dempsey, W., Han, P., Deshmukh, Y., Richardson, S., Tom, B., and Mukherjee, B. (2024). Exploring the big data paradox for various estimands using vaccination data from the global COVID-19 Trends and Impact Survey (CTIS). *Science Advances*, 10, eadj0266. <https://doi.org/10.1126/sciadv.adj0266>

IN REVIEW

Unjittwattana, T., Huang, Q., Du, Y., **Yang, Y.**, Zhou, M., and Garmire, L. (2024). Originator: computational framework separating single-cell RNA-Seq by genetic and contextual information (preprint). bioRxiv.

Yang, Y., Sun, A., Zimmermann, L., and Mukherjee, B. (2024). Mental health trends in India from 2020 to 2022: associations with financial stress, food insecurity, and COVID-19-related illness concerns (preprint). medRxiv.

Awards, Fellowships, & Grants

2024 **Rackham Conference Travel Grant**, Rackham Graduate School at University of Michigan

2020 **Integrated Excellence Award**, School of Life Sciences at Tsinghua University

Excellent Academic Performance, School of Life Sciences at Tsinghua University

Presentations

CONTRIBUTED PRESENTATIONS

Yang, Y., Dempsey, W., Han, P., Deshmukh, Y., Richardson, S., Tom, B., and Mukherjee, B. (2024). Exploring the big data paradox for various estimands using vaccination data from the global COVID-19 Trends and Impact Survey (CTIS). *Joint Statistical Meeting*, Portland, OR.

Yang, Y., Dempsey, W., Han, P., Deshmukh, Y., Richardson, S., Tom, B., and Mukherjee, B. (2024). Exploring the big data paradox for various estimands using vaccination data from the global COVID-19 Trends and Impact Survey (CTIS). *Eastern North American Region Spring Meeting*, Baltimore, MD.

Yang, Y., Dempsey, W., Han, P., and Mukherjee, B. (2023). What can we learn from observational data wrinkled with selection bias? A case study using Facebook COVID-19 Trends and Impact Survey in India and the US. *Michigan Student Symposium for Interdisciplinary Statistical Sciences*, Ann Arbor, MI.

Yang, Y., Huang, Q., Zhou, M., Benny, P., Schlueter, R., Lassiter, C., and Garmire, L. (2022). A novel single-cell RNA-seq analysis workflow for the human placenta. *Society for the Study of Reproduction Annual Meeting*, Spokane, WA.

INVITED PRESENTATIONS

Yang, Y. and Mukherjee, B. (2024). The big data paradox and mental health trends using COVID-19 Trends and Impact Survey (CTIS) data. *Center for Global Health Equity at University of Michigan India Platform Meeting*, Ann Arbor, MI.

Teaching Experience

2023 **Student Coordinator**, Big Data Summer Institute

Ann Arbor, MI

Professional Development

SERVICE

2024 **Biostatistics PhD Admissions Committee**, Committee Member

Ann Arbor, MI

2023+ **Biostatistics Graduate Student Working Group**, President

Ann Arbor, MI

2023-2024 **Statistics in the Community**, Committee Member

Ann Arbor, MI

2021-2024 **Biostatistics Diversity, Equity, and Inclusion Committee**, Committee Member

Ann Arbor, MI

2020-2021 **Qingxin Times**, Managing Editor

Beijing, China

2019-2021 **Tsinghua Sex Education Association**, Committee Member

Beijing, China

PEER REVIEW

Harvard Data Science Review

ORGANIZATION

American Statistical Association

International Biometric Society