Tsung-Hung Yao

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RESEARCH INTEREST

Method   Bayesian Nonparametric, Graphical Model, Approximate Bayesian Computation

Science   Precision Medicine, Data Integration, Clinical Oncology

EDUCATION

2023   **University of Michigan School of Public Health**, Ann Arbor, MI
Ph.D. in Biostatistics
Advisor: Veerabhadran Baladandayuthapani and Zhenke Wu

2017   **University of Michigan School of Public Health**, Ann Arbor, MI
M.Sc in Biostatistics
Advisor: Hyun Min Kang

2013   **National Taiwan University**, Taipei, Taiwan
B.Sc in Chemistry

PROFESSIONAL ACTIVITIES AND EXPERIENCE

2023 - Present   **Postdoctoral Fellow**
The University of Texas MD Anderson Cancer Center
Mentor: Suprateek Kundu

2019 - 2023   **Research Assistant**
University of Michigan School of Public Health
Advisor: Veerabhadran Baladandayuthapani and Zhenke Wu

2016 - 2018   **Research Assistant**
University of Michigan School of Public Health
Advisor: Hyun Min Kang

2017   **Intermediate Statistician Intern**
University of Michigan, Opioid Prescribing Engagement Network
Principal Investigator: Chad Brummett

2014 - 2015   **Research Assistant**
National Taiwan University, Accounting Department
Principal Investigator: Rong-Ruey Duh

2012 - 2013   **Data Scientist Intern**
Taiwan Economic Data Center
Principal Investigator: Ming-Yi Liang

PUBLICATION

Yao, T. H., Wu, Z., Bharath, K., Baladandayuthapani, V. (2024). Geometry-driven Bayesian Inference for Ultrametric Covariance Matrices. *Submitted. https://arxiv.org/abs/2401.11515*

Yao, T. H., Ni, Y., Bhadra, A., Kang, J., Baladandayuthapani, V. (2023). Robust Bayesian Graphical Regression Models for Assessing Tumor Heterogeneity in Proteomic Networks. *Submitted. https://arxiv.org/abs/2310.18474*

Yao, T. H., Wu, Z., Bharath, K., Li, J., Baladandayuthapani, V. (2023). Probabilistic Learning of Treatment Trees in Cancer. *The Annals of Applied Statistics* 17, 3:1884-1908. DOI: 10.1214/22-AOAS1696

Lane, M., Ives, G. C., Sluiter, E. C., Waljee, J. F., **Yao, T. H.**, Hu, H. M., & Kuzon, W. M. (2018). Trends in Gender-affirming Surgery in Insured Patients in the United States. *Plastic and reconstructive surgery. Global open*, 6(4), e1738. https://doi.org/10.1097/GOX.0000000000001738

CONFERENCE

Invited Session

2022   The 5th International Conference on Econometrics and Statistics

Contributed Presentation and Poster

2023   Joint Statistical Meeting

2022   International Society for Bayesian Analysis

2021   International Society for Bayesian Analysis

2021   Eastern North American Region

2019   American Society of Human Genetics

HONOR AND AWARDS

2022   International Society for Bayesian Analysis Travel Award

University of Michigan

2023   Rackham Conference Travel Grant

2019   Outstanding Graduate Student Instructor, Biostatistics Department

2018   Rackham Conference Travel Grant

TEACHING

Graduate Student Instructor

2022   Theory and Applications of Longitudinal Analysis, BIOS 653 (taught by Thomas Braun)

2019   Generalized Linear Model, BIOS 651 (taught by Veerabhadran Baladandayuthapani)

2017   Biostatistical Modeling in Clinical Research, BIOS 581 (taught by Mousumi Banerjee)

2016   Statistical Methods in Epidemiology, BIOS 523 (taught by Lili Zhao)

SERVICE

2021   Statistical Reviewer of Journal of Trauma Nursing

2016   Member of Statistics in the Community (STATCOM), University of Michigan

SKILLS

EXPERIENCED   R/Rstudio, Python, Linux Shell   FAMILIAR   C++, STATA, SAS