FAN BU

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PROFESSIONAL AFFILIATIONS

Tenure-track Assistant Professor

Jan 2024 - present

Department of Biostatistics, University of Michigan - Ann Arbor

Postdoctoral Scholar

Aug 2021 - Dec 2023

Department of Biostatistics, University of California - Los Angeles

Visiting Scholar

Sept 2022 - Nov 2022

Simons Institute, University of California - Berkeley

EDUCATION

Department of Statistical Science, Duke University

2017 - 2021

Ph.D. in Statistics; Dissertation: Stochastic Process Models on Dynamic Networks

School of Mathematical Sciences, Peking University

2013 - 2017

B.S. in Mathematics and Applied Mathematics

PUBLICATIONS & PREPRINTS

Statistical Methdology:

- **F. Bu**, A. E. Aiello, A. Volfovsky, and J. Xu. Stochastic EM algorithm for partially observed stochastic epidemics with individual heterogeneity (2024). *Biostatistics*.
- **F. Bu**, J. Kagaayi, M. K. Grabowski, J. Xu, and O. Ratmann. Inferring HIV Transmission Patterns from Viral Deep-Sequence Data via Latent Spatial Poisson Processes (2024). *Biometrics*.
- **F. Bu**, M. J. Schuemie, A. Nishimura, L. H. Smith, K. Kostka, T. Falconer, J. A. McLeggon, P. B. Ryan, G. Hripcsak, and M. A. Suchard. Bayesian Safety Surveillance with Adaptive Bias Correction (2023). *Statistics in Medicine*.
- M. Schuemie, **F. Bu**, A. Nishimura and M. Suchard. Adjusting for Both Sequential Testing and Systematic Error in Safety Surveillance using Observational Data: Empirical Calibration and MaxSPRT (2023). *Statistics in Medicine*.
- **F. Bu**, A. E. Aiello, J. Xu, and A. Volfovsky. Likelihood-based Inference for Partially Observed Epidemics on Dynamic Networks (2020). *Journal of the American Statistical Association* (Winner of 2020 ASA SBSS Student Paper Award).
- **F. Bu** , S. Xu, K. Heller, and A. Volfovsky. SMOGS: Social Network Metrics of Game Success (2019). The 22nd International Conference on Artificial Intelligence and Statistics (AISTATS).
- W. Zhang, **F. Bu**, D. Owen-Oas, K. Heller, and X. Zhu. Who Started It? Identifying Root Sources in Textual Conversation Threads (2018). *arXiv:1809.03648*.

Scientific & Collaborative (selected):

- D. Morales, **F. Bu**, B. Viernes, [...], and M. A. Suchard. Risk of thyroid tumours with glucagon-like peptide-1 receptor agonists: international cohort study (2024). *Under revisions for JAMA Internal Medicine*.
- R. Khera, A. Aminorroaya, L. S. Dhingra, P. M. Thangaraj, A. P. Camargos, **F. Bu**, [...], and M. A. Suchard. Comparative Effectiveness of Second-line Antihyperglycemic Agents for Cardiovascular

Outcomes: A Large-scale, Multinational, Federated Analysis of the LEGEND-T2DM Study (2024). Journal of the American College of Cardiology.

- T. V. Anand, **F. Bu**, M. J. Schuemie, M. A. Suchard, and G. Hripcsak. Comparative safety and effectiveness of angiotensin converting enzyme inhibitors and thiazides and thiazide-like diuretics under strict monotherapy (2024). *Journal of Clinical Hypertension*.
- F. Arshad, M. J. Schuemie, **F. Bu**, [...], and M. A. Suchard. Serially Combining Epidemiological Designs Does Not Improve Overall Signal Detection in Vaccine Safety Surveillance (2023). *Drug Safety*.

Awards and Honors

OHDSI Titan Award for Methodological Research.	$October\ 2022$
Mentorship of Excellence award for 2022 UCLA B.I.G. summer research program.	$August\ 2022$
ISBA World Meeting travel award.	June~2022
Duke CFAR Fall Retreat Best Poster Award.	October 2020
ASA SBSS Student Paper Award; JSM travel award.	$August\ 2020$
Honorable Mention for Ph.D. Teaching Assistant for the Year.	May 2020
Women in Machine Learning Workshop (WiML) travel award.	December 2017

PROFESSIONAL SERVICE

Associate Chair for $ENAR$ Social Media Committee	September 2023 - December 2024
Program Chair for the junior section of the International Society for Bayesian Analysis (j-ISBA).	January 2022 - December 2023

Invited Talks and Presentations

Invited talk at ENAR 2024.

Since January 2024:

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Invited talk at the UM Statistics student seminar (scheduled).	November 2024
Invited talk at the 2024 International Day of Women in Statistics and Data Science (IDWSDS) Conference.	October 2024
Contributed talk at ISBA World Meetings 2024.	July 2024
Invited talk at Ecosta 2024.	July 2024
Invited talk at the Online Seminar on Spatial and spatio-temporal Point processes and beyond (OSSP).	April 2024
Invited talk at the Statistical Methods for Infectious Diseases Across Scales Workshop (by Penn State University).	April 2024
Recent publications highlight talk at OHDSI community meeting.	March 2024

March 2024