Wei Jin

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EDUCATION

Ph.D. in Applied Mathematics and Statistics 2018 - Present
Johns Hopkins University, Baltimore, MD
Advised by Professor Yanxun Xu
Cumulative GPA: 4.00/4.00

M.S.E in Computer Science 2019 - Present
Johns Hopkins University, Baltimore, MD
Cumulative GPA: 4.00/4.00

M.S.E in Applied Mathematics and Statistics 2016 - 2018
Johns Hopkins University, Baltimore, MD
Cumulative GPA: 4.00/4.00

B.S. in Mathematics and Applied Mathematics 2012 - 2016
Sichuan University, Chengdu, China
Honor degree in Wu Yuzhang Honors College
Advised by Professor Nanjing Huang
Cumulative GPA: 3.72/4.00 (Rank: 1/37)

RESEARCH INTERESTS

- Bayesian Nonparametrics
- Electronic Health Records
- Precision Medicine in HIV

PUBLICATIONS AND PREPRINTS

1. **Jin, W.**, Ni, Y., Rubin, L.H., Spence, A.B. and Xu, Y. (2021) *"A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV."* **Biometrics.** In press.
   Winner of the Joint Statistical Meetings (JSM) Student Paper Award, Mental Health Statistics Section
2. Gouet, C., **Jin, W.**, Naiman, D.Q., Peña, M. and Halberda, J. (2021) *"Bias and Noise in Proportion Estimation: A Mixture Psychophysical Model."* **Cognition, 213, 104805.**
3. Fitzgerald, K.C., Maki, P.M., Xu, Y., **Jin, W.**, Dastgheyb, R., Williams, D.W., Springer, G., Anastos, K., Gustafson, D., Spence, A.B., Adimora, A.A., Waldrop, D., Vance, D.E., Bolivar, H., Valcour, V.G. and Rubin, L.H. (2020) *"Factors Predicting Detrimental Change in Declarative Memory Among Women with HIV: A Study of Heterogeneity in Cognition."* **Frontiers in Psychology, 11, 2606.**
4. Xie, F., **Jin, W.** and Xu, Y. (2019) *"Rates of Contraction with Respect to L_2-Distance for Bayesian Nonparametric Regression."* **Electronic Journal of Statistics, 13(2), 3485-3512.**
5. **Jin, W.**, Ni, Y., Rubin, L.H., Spence, A.B. and Xu, Y. (2021+) *"A Bayesian Tree Model for Inferring Longitudinal Drug Combination Effects on Depression in People with HIV."* In preparation.

6. **Jin, W.**, Wang, Z. and Xu, Y. (2021+) *"Longitudinal Model of Alzheimer's Disease Biomarkers with an Unknown Gold Standard."* In preparation.

ACADEMIC PRESENTATIONS

- A Bayesian Tree Model for Inferring Longitudinal Drug Combination Effects on Depression in People with HIV
  - *World Meeting of the International Society for Bayesian Analysis (ISBA), Contributed Session, Virtual.* June 2021
- A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV
  - *Joint Statistical Meetings (JSM), Contributed Session, Virtual.* August 2021
  - *International Chinese Statistical Association (ICSA) Statistics Symposium, Poster Session, Virtual.* December 2020
  - *Applied Mathematics and Statistics Student Seminar, Johns Hopkins University, Baltimore, MD.* October 2020
- Mathematical Models of Proportional Reasoning in Cognitive Science
  - *Applied Mathematics and Statistics Student Seminar, Johns Hopkins University, Baltimore, MD.* October 2017

EXPERIENCE

- **Research Assistant** 2019 - Present
  Johns Hopkins University, Baltimore, MD
  - Research assistant to Professor Yanxun Xu in the Department of Applied Mathematics and Statistics.
  - Bayesian methods development for electronic health records data and application to precision medicine in HIV.
- **Teaching Assistant** 2018 - 2020
  Johns Hopkins University, Baltimore, MD
  - EN.553.602 Research and Design in Applied Mathematics 2020 Spring
  - EN.553.636 Introduction to Data Science 2020, 2019 Spring, 2018 Fall
  - EN.553.720 Probability Theory I 2019 Fall
  - EN.553.731 Statistical Theory II 2019, 2018 Spring
  - EN.553.782 Statistical Uncertainty Quantification 2018 Fall
- **Data Analyst Intern** Summer 2015
  Tencent, Beijing, China
  - Refined and classified online payers and game users of WeChat according to their behaviors by applying statistical and machine learning methods.

HONORS AND AWARDS

- Winner of the Joint Statistical Meetings (JSM) Student Paper Award, Mental Health Statistics Section 2021
- Acheson J. Duncan Fund for the Advancement of Research in Statistics 2017
- The First Prize Scholarship of Sichuan University 2015
- Honorable Mention of Mathematical Contest in Modeling 2014

TECHNICAL SKILLS

- Proficient in R, Python, C++, SQL, Linux, LaTeX