# Wei Jin

Postdoctoral Fellow Email: wjin@jhu.edu
Department of Applied Mathematics and Statistics Homepage: https://bluejw.github.io
Johns Hopkins University

### **EDUCATION**

Johns Hopkins University, Baltimore, MD	
Ph.D. in Applied Mathematics and Statistics	2018 - 2022
Dissertation Title: Novel Bayesian Methods for Precision Medicine in HIV	
Advisor: Yanxun Xu	
M.S.E in Computer Science	2019 - 2021
M.S.E in Applied Mathematics and Statistics	2016 - 2018
Cumulative GPA: 4.00/4.00	
Sichuan University, Chengdu, China	
B.S. in Mathematics and Applied Mathematics	2012 - 2016
Honor Degree in Wu Yuzhang Honors College	
Advisor: Nanjing Huang	
Cumulative GPA: $3.72/4.00$ (Rank: $1/37$ )	

#### **EMPLOYMENT**

Postdoctoral Fellow

Department of Applied Mathematics and Statistics

Johns Hopkins University, Baltimore, MD

Research Scientist Intern Summer 2022

Eli Lilly and Company, Indianapolis, IN

Research Assistant 2018 - 2022

Department of Applied Mathematics and Statistics Johns Hopkins University, Baltimore, MD

### RESEARCH INTERESTS

## • Theory and Methods

Bayesian Nonparametrics, Dynamic Treatment Regimes, Reinforcement Learning, Causal Discovery, Graphical Models, Longitudinal Data Analysis

## • Applications

Electronic Health/Medical Record Data, Precision Medicine, Mental Health in People with HIV, Early Detection of Alzheimer's Disease, Proportional Reasoning in Cognitive Science

#### **PUBLICATIONS**

- 1. **Jin, W.**, Ni, Y., Spence, A.B., Rubin, L.H., and Xu, Y. (2024) "A Bayesian Approach for Investigating the Pharmacogenetics of Combination Antiretroviral Therapy in People with HIV." **Biostatistics**, In Press.
- Parra-Rodriguez, L., O'Halloran, J., Wang, Y., Jin, W., Dastgheyb, R., Spence, A.B., Sharma, A., Gustafson, D., Milam, J., Weber, K., Adimora, A.A., Ofotokun, I., Fischl, M., Konkle-Parker, D., Maki, P.M., Xu, Y., and Rubin, L.H. (2024) "Common Antiretroviral Combinations are Associated with Somatic Depressive Symptoms in Women with HIV." AIDS, 38(2), 167-176.

- 3. Jin, W., Ni, Y., O'Halloran, J., Spence, A.B., Rubin, L.H., and Xu, Y. (2023) "A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy in People with HIV." Annals of Applied Statistics, 17(4), 3035-3055. (Winner of the Conference on Advances in Bayesian and Frequentist Statistics Poster Award)
- 4. Rubin, L.H., Maki, P.M., Dastgheyb, R., Steigman, P., Burke-Miller, J., Xu, Y., **Jin, W.**, Sosanya, O., Gustafson, D., Merenstein, D., Milam, J., Weber, K., Springer, G., and Cook, J. (2023) "Trauma Across the Lifespan and Multisystem Morbidity in Women with HIV." **Psychosomatic Medicine**, 85(4), 341-350.
- 5. Jin, W., Ni, Y., Rubin, L.H., Spence, A.B., and Xu, Y. (2022) "A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV." Biometrics, 78(3), 988-1000. (Winner of the Joint Statistical Meetings (JSM) Student Paper Award, Mental Health Statistics Section)
- 6. 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.
- 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, 548521.
- 8. Xie, F., **Jin, W.**, and Xu, Y. (2019) "Rates of Contraction with Respect to L<sub>2</sub>-Distance for Bayesian Nonparametric Regression." **Electronic Journal of Statistics**, 13(2), 3485-3512.

#### WORKING PAPERS

- 9. **Jin, W.**, Ni, Y., Spence, A.B., Rubin, L.H., and Xu, Y. "Directed Cyclic Graphs for Simultaneous Discovery of Time-Lagged and Instantaneous Causality from Time-Series Data." **Journal of Machine Learning Research**, Under Revision.
- 10. **Jin, W.**, Gao, Q., and Xu, Y. "BayTetra: A Bayesian Semiparametric Approach for Testing Trajectory Differences." Submitted.
- 11. **Jin, W.**, Xu, Y., and Wang, Z. "Modeling Alzheimer's Disease Biomarkers' Trajectory in the Absence of a Gold Standard using a Bayesian Approach." Submitted.
- 12. Yao, D., **Jin, W.**, Zhao, Y., Qi, Z., Hanna, D., Levine, S., Spence, A.B., Price, J., Shorer, E., Gange, S., Floris-Moore, M., Mehta, C., Fischl, M., Hickman, A., Rubin, L.H., Ho, K., Mimiaga, M., Palella, F., and Xu, Y. "HIV-AICare: A Deep Reinforcement Learning Approach for Optimizing Antiretroviral Therapy in People with HIV." In Preparation.
- 13. **Jin, W.**, Ni, Y., and Xu, Y. "Robust Bayesian Learning for Individualized Treatment Rules Under Unmeasured Confounding and Data Partial Coverage." In Preparation.

### ACADEMIC PRESENTATIONS

- The 9th Workshop on Biostatistics and Bioinformatics
   May 2024
   Georgia State University, Atlanta, GA (Poster Session)
   Title: A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy
   in People with HIV

• International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Ann Arbor, MI (Invited Talk) Title: Long-Short-Term Cyclic Structural Causal Model for Time-Series Causal Discovery  • Eastern North American Region (ENAR) International Biometric Society Spring Meeting, Nashville, TN Title: A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy in People with HIV • Bayesian Seminar, Eli Lilly and Company, Indianapolis, IN Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV • Conference on Advances in Bayesian and Frequentist Statistics Rutgers University, New Brunswick, NJ (Poster Session) Title: A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy in People with HIV • Joint Statistical Meetings (JSM), Virtual Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV • World Meeting of the International Society for Bayesian Analysis (ISBA), Virtual June 2021 Title: 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), Virtual June 2021 Title: A Bayesian Tree Model for Inferring Drug Combination Effects on Depression in People with HIV • International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Virtual (Poster Session) Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV • Applied Mathematics and Statistics Student Seminar Johns Hopkins University, Baltimore, MD Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV • Applied Mathematics and Statistics Student Seminar Johns Hopkins University, Baltimore, MD Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV • Statist	• Joint Statistical Meetings (JSM), Toronto, ON, Canada Title: Long-Short-Term Cyclic Structural Causal Model for Time-Series Causal Discou	August 2023
International Biometric Society Spring Meeting, Nashville, TN Title: A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy in People with HIV  Bayesian Seminar, Eli Lilly and Company, Indianapolis, IN July 2022 Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  Conference on Advances in Bayesian and Frequentist Statistics Rutgers University, New Brunswick, NJ (Poster Session) Title: A Bayesian Decision Framework for Optimizing Sequential Combination Antiretroviral Therapy in People with HIV  Joint Statistical Meetings (JSM), Virtual Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  World Meeting of the International Society for Bayesian Analysis (ISBA), Virtual Title: A Bayesian Tree Model for Inferring Longitudinal Drug Combination Effects on Depression in People with HIV  International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Virtual (Poster Session) Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  Applied Mathematics and Statistics Student Seminar Johns Hopkins University, Baltimore, MD Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  Applied Mathematics and Statistics Student Seminar Johns Hopkins University, Baltimore, MD Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  Applied Mathematics and Statistics Student Seminar Johns Hopkins University, Baltimore, MD Title: Mathematical Models of Proportional Reasoning in Cognitive Science  HONORS AND AWARDS  Statistics in the Age of AI Travel Award Department of Statistics, George Washington University  Unusing Participant Travel Award Cembro Conference on Advances in Bayesian and Frequentist Statistics Department of Mathematics and Statistics, Johns Hopkins University	Applied Statistics Symposium, Ann Arbor, MI (Invited Talk)	
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<ul> <li>Applied Mathematics and Statistics Student Seminar         Johns Hopkins University, Baltimore, MD         Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV</li> <li>Applied Mathematics and Statistics Student Seminar         Johns Hopkins University, Baltimore, MD         Title: Mathematical Models of Proportional Reasoning in Cognitive Science</li> <li>HONORS AND AWARDS</li> <li>Statistics in the Age of AI Travel Award         Department of Statistics, George Washington University</li> <li>The 9th Workshop on Biostatistics and Bioinformatics Travel Award         Department of Mathematics and Statistics, Georgia State University</li> <li>Junior Participant Travel Award         CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery         Department of Statistics, Texas A&amp;M University</li> <li>Rufus P. Isaacs Graduate Fellowship         Department of Applied Mathematics and Statistics, Johns Hopkins University</li> <li>Student Travel Award and Poster Award         Conference on Advances in Bayesian and Frequentist Statistics         Department of Statistics, Rutgers University</li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> </ul>	Applied Statistics Symposium, Virtual (Poster Session) Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on	
Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on Mental Health in People with HIV  Applied Mathematics and Statistics Student Seminar October 2017 Johns Hopkins University, Baltimore, MD Title: Mathematical Models of Proportional Reasoning in Cognitive Science  HONORS AND AWARDS  Statistics in the Age of AI Travel Award 2024 Department of Statistics, George Washington University  The 9th Workshop on Biostatistics and Bioinformatics Travel Award 2024 Department of Mathematics and Statistics, Georgia State University  Junior Participant Travel Award 2023 CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery Department of Statistics, Texas A&M University  Rufus P. Isaacs Graduate Fellowship 2022 Department of Applied Mathematics and Statistics, Johns Hopkins University  Student Travel Award and Poster Award 2022 Conference on Advances in Bayesian and Frequentist Statistics Department of Statistics, Rutgers University  Joint Statistical Meetings (JSM) Student Paper Award 2021	• Applied Mathematics and Statistics Student Seminar	October 2020
Johns Hopkins University, Baltimore, MD Title: Mathematical Models of Proportional Reasoning in Cognitive Science  HONORS AND AWARDS  • Statistics in the Age of AI Travel Award Department of Statistics, George Washington University  • The 9th Workshop on Biostatistics and Bioinformatics Travel Award Department of Mathematics and Statistics, Georgia State University  • Junior Participant Travel Award CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery Department of Statistics, Texas A&M University  • Rufus P. Isaacs Graduate Fellowship Department of Applied Mathematics and Statistics, Johns Hopkins University  • Student Travel Award and Poster Award Conference on Advances in Bayesian and Frequentist Statistics Department of Statistics, Rutgers University  • Joint Statistical Meetings (JSM) Student Paper Award 2021	Title: A Bayesian Nonparametric Approach for Inferring Drug Combination Effects on	Mental Health
<ul> <li>Statistics in the Age of AI Travel Award         Department of Statistics, George Washington University</li> <li>The 9th Workshop on Biostatistics and Bioinformatics Travel Award         Department of Mathematics and Statistics, Georgia State University</li> <li>Junior Participant Travel Award         CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery         Department of Statistics, Texas A&amp;M University</li> <li>Rufus P. Isaacs Graduate Fellowship         Department of Applied Mathematics and Statistics, Johns Hopkins University</li> <li>Student Travel Award and Poster Award         Conference on Advances in Bayesian and Frequentist Statistics         Department of Statistics, Rutgers University</li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> </ul>	Johns Hopkins University, Baltimore, MD	October 2017
<ul> <li>Department of Statistics, George Washington University</li> <li>The 9th Workshop on Biostatistics and Bioinformatics Travel Award Department of Mathematics and Statistics, Georgia State University</li> <li>Junior Participant Travel Award CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery Department of Statistics, Texas A&amp;M University</li> <li>Rufus P. Isaacs Graduate Fellowship Department of Applied Mathematics and Statistics, Johns Hopkins University</li> <li>Student Travel Award and Poster Award Conference on Advances in Bayesian and Frequentist Statistics Department of Statistics, Rutgers University</li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> <li>2021</li> </ul>	HONORS AND AWARDS	
<ul> <li>Department of Mathematics and Statistics, Georgia State University</li> <li>Junior Participant Travel Award         CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery         Department of Statistics, Texas A&amp;M University</li> <li>Rufus P. Isaacs Graduate Fellowship         Department of Applied Mathematics and Statistics, Johns Hopkins University</li> <li>Student Travel Award and Poster Award         Conference on Advances in Bayesian and Frequentist Statistics         Department of Statistics, Rutgers University</li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> <li>2021</li> </ul>		2024
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<ul> <li>Department of Applied Mathematics and Statistics, Johns Hopkins University</li> <li>Student Travel Award and Poster Award         <ul> <li>Conference on Advances in Bayesian and Frequentist Statistics</li> <li>Department of Statistics, Rutgers University</li> </ul> </li> <li>Joint Statistical Meetings (JSM) Student Paper Award</li> <li>2021</li> </ul>	CBMS Conference - Foundations of Causal Graphical Models and Structure Discovery	2023
Conference on Advances in Bayesian and Frequentist Statistics  Department of Statistics, Rutgers University  • Joint Statistical Meetings (JSM) Student Paper Award  2021	<del>-</del>	2022
	Conference on Advances in Bayesian and Frequentist Statistics	2022
	-	2021

Acheson J. Duncan Fund for the Advancement of Research in Statistics
 Department of Applied Mathematics and Statistics, Johns Hopkins University
 First Class Scholarship for Undergraduate Study
 School of Mathematics, Sichuan University
 Honorable Mention of Mathematical Contest in Modeling
 Consortium for Mathematics and its Applications

#### TEACHING AND MENTORING

#### • Teaching Assistant

Johns Hopkins University, Baltimore, MD

EN.553.602 Research and Design in Applied Mathematics
 EN.553.636 Data Mining/Introduction to Data Science
 EN.553.720 Probability Theory I
 EN.553.731 Statistical Theory II
 Spring 2020
 Fall 2018, Spring 2019, Spring 2020
 Fall 2019
 Spring 2018, Spring 2019

- EN.553.782 Statistical Uncertainty Quantification

Fall 2018

## • Student Advising

Johns Hopkins University, Baltimore, MD

Sehee Park, Ph.D. Candidate, Applied Mathematics and Statistics
 Qiuxin Gao, Master's Student, Applied Mathematics and Statistics
 2023 - Present

## **ACADEMIC SERVICES**

### • Professional Memberships

- American Statistical Association (ASA)
- Eastern North American Region (ENAR) International Biometric Society
- International Chinese Statistical Association (ICSA)
- International Society for Bayesian Analysis (ISBA)

#### • Journal Reviewer

- Annals of Applied Statistics (1)
- Biometrics (2)

#### TECHNICAL SKILLS

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