

Heejun Shin

CONTACT	Department of Statistics 103C Griffin-Floyd Hall, P.O. Box 118545 University of Florida Gainesville, FL 32611	<i>Email: hshin1@ufl.edu</i> <i>Webpage: hshin111.github.io</i>
INTERESTS	Causal Inference, Bayesian Modeling, High-dimensional Inference, Environmental Statistics	
EMPLOYMENT	Postdoctoral Research Fellow , Harvard University <i>Mentor: Professor Francesca Dominici</i>	2024–present
EDUCATION	Ph.D. in Statistics, University of Florida <i>Thesis: Causal Inference with Bayesian Modeling for Challenging Environmental Health Problems</i> <i>Advisor: Professor Joseph Antonelli</i> B.S. in Applied Statistics, Konkuk University <i>Ranked first in class</i>	2024 2019
PUBLICATIONS & PREPRINTS	Shin, H. , Linero, A., Audirac, M., Irene, K., Braun, D., and Antonelli, J. (2024+). Treatment effect heterogeneity and importance measures for multivariate continuous treatments. <i>arXiv:2404.09126</i> . <i>Submitted</i> [Link] Shin, H. , Braun, D., Irene, K., and Antonelli, J. (2023+). A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments. <i>arXiv:2305.14194</i> . [Link] Shin, H. and Antonelli, J. (2023). Improved inference for doubly robust estimators of heterogeneous treatment effects. <i>Biometrics</i> , 79(4): 3140–3152. [Journal][arXiv]	
HONORS & AWARDS	Early Career Paper Award , American Statistical Association Biometrics Section 2024 Kenneth and Janet Keene Endowed Dissertation Fellowship , College of Liberal Arts and Sciences, University of Florida 2024 Mark CK Yang Student Research Award , UF Joint Statistics and Biostatistics Workshop 2023 Boyd Harshburger Travel Award funded by National Science Foundation, The Southern Regional Council on Statistics 2022 The John Van Ryzin Award for the best student paper of the year, International Biometric Society Eastern North American Region 2022 Distinguished Student Paper Award , International Biometric Society Eastern North American Region 2022 College of Liberal Arts and Sciences Graduate Student Travel Award , University of Florida - Joint Statistical Meetings 2023 - Eastern North American Region Spring Meeting, Joint Statistical Meetings 2022 The President’s Award for an outstanding graduating undergraduate student, Korean Statistical Society 2019 Academic Excellence Scholarship - Chungbuk Human Resource Development Foundation 2018 - The South Korean National Agricultural Cooperative Federation 2018 - Konkuk University 2013-2018	
PRESENTATIONS	Contributed talk. “A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments” <i>Bayesian Young Statisticians Meeting</i> . Virtual. 2023. Contributed talk. “A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments” <i>UF Joint Statistics and Biostatistics Workshop</i> . Gainesville, FL. 2023. Seminar talk. “Identifying Interactions between Covariates and Continuous Exposures via Targeted Smoothing” <i>UFSTAT Student Seminar Series</i> . Gainesville, FL. 2023. Contributed talk. “A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments” <i>Joint Statistical Meetings</i> . Toronto, Canada. 2023. Contributed poster. “Causal Effects of Continuous Exposures in the Presence of Spatial Interference: the Effects of Air Pollution on Public Health.” <i>American Causal Inference Conference</i> . Austin, TX. 2023. Contributed poster. “Improved inference for doubly robust estimators of heterogeneous treatment effects.” <i>The Southern Regional Council on Statistics Summer Research Conference</i> . Jekyll Island, GA. 2022.	

Contributed talk. “Improved inference for doubly robust estimators of heterogeneous treatment effects.” *Joint Statistical Meetings*. Washington, D.C. 2022.

Contributed talk (as the John Van Ryzin Award winner). “High-dimensional and nonparametric Bayesian methodology for treatment effect heterogeneity.” *Eastern North American Region Spring Meeting*. Houston, TX. 2022.

**TEACHING
EXPERIENCE**

Instructor , University of Florida STA3024 - Introduction to Statistics II	Sum A, Sum B, Fall 2023
Teaching Assistant , University of Florida STA 3024 - Introduction to Statistics II STA 4241 - Statistical Learning STA 4321 - Introduction to Probability STA 4322 - Introduction to Statistical Theory STA 4502 - Nonparametric Statistical Methods STA 6166 - Statistical Methods in Research	2019–2023

SERVICE

Organizer, <i>UFSTAT Student Seminar Series</i> , Department of Statistics, University of Florida	2022-2023
Graduate Mentor, <i>Statistics Undergraduate Research Experience</i> , SRCoS	2022
Journal Referee, <i>PeerJ: life and environment</i>	

REFERENCES

Dr. Joseph Antonelli Assistant Professor of Statistics University of Florida 206 Griffin-Floyd Hall, P.O. Box 118545 Gainesville, FL 32611-8545 jantonelli@ufl.edu • +1 (352) 273-4638	Dr. Michael Daniels Professor and Chair of Statistics Andrew Banks Family Endowed Chair University of Florida 102C Griffin-Floyd Hall, P.O. Box 118545 Gainesville, FL 32611-8545 daniels@ufl.edu • +1 (352) 273-2966
Dr. Kshitij Khare Professor of Statistics University of Florida 208 Griffin-Floyd Hall, P.O. Box 118545 Gainesville, FL 32611-8545 kdkhare@stat.ufl.edu • +1 (352) 273-2985	

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