

Heejun Shin

CONTACT	Department of Biostatistics Harvard T.H. Chan School of Public Health Building 2 Room 435 655 Huntington Avenue Boston, MA 02115	<i>Email: heejunshin@hsph.harvard.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
	Research Assistant , University of Florida <i>Mentor: Professor Joseph Antonelli</i>	2021–2024
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>	2024
	B.S. in Applied Statistics, Konkuk University <i>Ranked first in class</i>	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>Under Revision</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	Seminar talk. “Treatment effect heterogeneity and importance measures for multivariate continuous treatments” <i>Konkuk University</i> . Seoul, Korea 2024. Contributed talk (as an Early Career Paper Award recipient). “Treatment effect heterogeneity and importance measures for multivariate continuous treatments” <i>Joint Statistical Meetings</i> . Portland, OR. 2024. Seminar talk. “Improved inference for doubly robust estimators of heterogeneous treatment effects” <i>WebENAR</i> . Virtual 2024. 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” *UF Joint Statistics and Biostatistics Workshop*. Gainesville, FL. 2023.

Seminar talk. “Identifying Interactions between Covariates and Continuous Exposures via Targeted Smoothing” *UFSTAT Student Seminar Series*. Gainesville, FL. 2023.

Contributed talk. “A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments” *Joint Statistical Meetings*. Toronto, Canada. 2023.

Contributed poster. “Causal Effects of Continuous Exposures in the Presence of Spatial Interference: the Effects of Air Pollution on Public Health.” *American Causal Inference Conference*. Austin, TX. 2023.

Contributed poster. “Improved inference for doubly robust estimators of heterogeneous treatment effects.” *The Southern Regional Council on Statistics Summer Research Conference*. 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

2023

Teaching Assistant, University of Florida

2019–2023

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

SERVICE

Organizer, *UFSTAT Student Seminar Series*, Department of Statistics, University of Florida

2022-2023

Graduate Mentor, *Statistics Undergraduate Research Experience*, SRCoS

2022

Journal Referee, *PeerJ: life and environment*

REFERENCES

Dr. Joseph Antonelli

Assistant Professor of Statistics

University of Florida

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Dr. Francesca Dominici

Clarence James Gamble Professor of Biostatistics,

Population, and Data Science

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