

Heejun Shin

CONTACT	Department of Biostatistics Harvard T.H. Chan School of Public Health 655 Huntington Avenue Building 2 Room 435 Boston, MA 02115	<i>Email: heejunshin@hsph.harvard.edu</i> <i>Webpage: hshin111.github.io</i>
	Causal Inference, Bayesian Nonparametric Models, Environmental Statistics	
INTERESTS	Causal Inference, Bayesian Nonparametric Models, Environmental Statistics	
EMPLOYMENT	Postdoctoral Research Fellow , Harvard University Advisor: Professor Francesca Dominici	2024–present
EDUCATION	Ph.D. in Statistics, University of Florida <i>Thesis:</i> Causal Inference with Bayesian Modeling for Challenging Environmental Health Problems Advisor: Professor Joseph Antonelli	2024
	B.S. in Applied Statistics, Konkuk University <i>Ranked first in class</i>	2019
PUBLICATIONS & PREPRINTS	<p>Shin, H., Linero, A., Audirac, M., Irene, K., Braun, D., and Antonelli, J. (2024+). Treatment effect heterogeneity and importance measures for multivariate continuous treatments. arXiv:2404.09126. <i>Under Revision, Annals of Applied Statistics</i> [Link]</p> <p>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. arXiv:2305.14194. <i>Under Revision, Journal of the American Statistical Association</i> [Link]</p> <p>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]</p>	
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
INVITED PRESENTATIONS	- The South Korean National Agricultural Cooperative Federation	2018
	- Konkuk University	2013-2018
	Seminar talk. “Treatment effect heterogeneity and importance measures for multivariate continuous treatments” <i>Konkuk University</i> . Seoul, Korea 2024.	
	Seminar talk. “Improved inference for doubly robust estimators of heterogeneous treatment effects” <i>WebENAR</i> . Virtual 2024.	
CONTRIBUTED PRESENTATIONS	Seminar talk. “Identifying Interactions between Covariates and Continuous Exposures via Targeted Smoothing” <i>UFSTAT Student Seminar Series</i> . Gainesville, FL. 2023.	
	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.	

Contributed talk. “A spatial interference approach to account for mobility in air pollution studies with multivariate continuous treatments” *Bayesian Young Statisticians Meeting*. 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.

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	Guest Lecturer , Harvard University	2024
	BST228 - Applied Bayesian Analysis	
	Instructor , University of Florida	2023
	STA3024 - Introduction to Statistics II	
	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, <i>UFSTAT Student Seminar Series</i> , Department of Statistics, University of Florida	2022-2023
	Journal Referee, <i>PeerJ: life and environment</i>	

REFERENCES	Dr. Joseph Antonelli	Dr. Francesca Dominici
	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	Clarence James Gamble Professor of Biostatistics, Population, and Data Science Harvard T.H. Chan School of Public Health 655 Huntington Avenue, SPH2, 4th Floor Boston, Massachusetts, 02115 fdominic@hsph.harvard.edu • + 1 (410) 258-5886

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