

Bokgyeong Kang

University Park, PA, USA
bxk487@psu.edu

Updated on August 18, 2023

EMPLOYMENT

Postdoctoral researcher, Duke University, USA

2023–Present

- Supervisors: Dr. Alan Gelfand, Dr. Robert Schick, and Dr. Erin Schliep

EDUCATION

Ph.D in Statistics, The Pennsylvania State University, USA

2018–2023

- Advisors: Dr. Murali Haran and Dr. John Hughes
- Dissertation Title: Computational Methods and Spatial Models with Intractable Likelihoods

M.A. in Applied statistics, Yonsei University, South Korea

2016–2018

- Advisor: Dr. Taeyoung Park
- Thesis Title: Flexible Modeling of Clusters in Asset Prices Using the Nested Dirichlet Process

B.A. in Business administration and Applied statistics, Yonsei University, South Korea

2009–2016

HONORS AND AWARDS

- Poster Award, International Society for Bayesian Analysis (ISBA) 2022
- Award for Support of Pedagogy in Graduate Instruction, The Pennsylvania State University 2021
- Distinguished Graduate Fellowship, The Pennsylvania State University Fall 2018–Spring 2019
- Graduated with High Honors, Yonsei University 2016

RESEARCH INTERESTS

Statistical computing; Markov chain Monte Carlo algorithms; spatial statistics; infectious disease modeling; statistical analysis of environmental and ecological processes

PUBLICATIONS

Manuscripts in Preparation

- **Bokgyeong Kang**, John Hughes, and Murali Haran. (2023+). “A spatio-temporal self-exciting point process for invasive food-and-mouth disease occurrence in Turkey.”

Submitted Articles

- **Bokgyeong Kang**, John Hughes, and Murali Haran. (2023+). “A spatial zero-inflated Conway–Maxwell–Poisson regression model for US vaccine refusal.” [\[Link\]](#)
- **Bokgyeong Kang**, John Hughes, and Murali Haran. (2023+). “Measuring Sample Quality in Algorithms for Intractable Normalizing Function Problems.” [\[Link\]](#)

Published Articles

- **Bokgyeong Kang**, Sandra Goldlust, Elizabeth Lee, John Hughes, Shweta Bansal, and Murali Haran. (2023). “Spatial distribution and determinants of childhood vaccination refusal in the United States.” *Vaccine*, 41(20) [\[Link\]](#)
- **Bokgyeong Kang** and Taeyoung Park. (2019). “Efficient and flexible model-based clustering of jumps in diffusion processes.” *Journal of the Korean Statistical Society*. 48(3) [\[Link\]](#)

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PRESENTATIONS

- A spatial zero-inflated Conway–Maxwell–Poisson regression model for US vaccine refusal
 - 2023 IRSA Conference; Minneapolis, MN, USA; May 18–20, 2023
 - 2023 ENAR Spring Meeting; Nashville, TN, USA; Mar 19–22, 2023
 - 2022 ENVR Workshop; Provo, UT, USA; Oct 6–8, 2022
 - 2022 Joint Statistical Meetings; Washington, DC, USA; Aug 06–11, 2022
 - 2022 World Meeting of the International Society for Bayesian Analysis; Montreal, QC, Canada; June 26–July 01, 2022
- Diagnostics for Monte Carlo algorithms for models with intractable normalising functions
 - 2021 Joint Statistical Meetings (virtual); Aug 08–12, 2021
 - 2021 World Meeting of the International Society for Bayesian Analysis (virtual); June 28–July 02, 2021
- Spatial distribution and determinants of childhood vaccination refusal in the United States
 - 2021 MIDAS Network Annual Meeting (virtual); May 10–13, 2021

TEACHING EXPERIENCE

The Pennsylvania State University

Graduate Instructor

- MATH/STAT318 - Elementary Probability Fall 2021, Spring 2022

Graduate Assistant

- STAT540 (Grad) - Statistical Computing Spring 2023
- STAT515 (Grad) - Stochastic Processes and Monte Carlo Methods Spring 2021
- STAT416 - Stochastic Modeling Fall 2020
- STAT200 - Elementary Statistics Fall 2019, Spring 2020

Yonsei University

Graduate Instructor

- STA2104 - Computer Programming Spring 2018

Graduate Assistant

- STA3126 - Mathematical Statistics I Fall 2016, Fall 2017
- STA1001 - Introduction to Statistics Fall 2016, Spring 2017, Fall 2017
- STA3124 - Stochastic Process Spring 2017

VOLUNTEER EXPERIENCE

Reviewer for International Journals and Conferences

- Journal of the American Statistical Association (JASA)
- Journal of Computational and Graphical Statistics (JCGS)
- Journal of Machine Learning Research (JMLR)