Seongwon Im

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Naval Future Innovation Research Group
Republic of Korea Naval Headquarters
Gyeryongdae, South Korea

EDUCATION

Colorado State University, Fort Collins, CO   2019 – 2024
Doctor of Philosophy., Statistics
Thesis: *Bayesian Tree Based Methods for Longitudinally Assessed Environmental Mixtures*
Advisor: Dr. Ander Wilson

Colorado State University, Fort Collins, CO   2019 – 2023
Master of Science, Statistics

St. Lawrence University, Canton, NY   2015 – 2019
Bachelor of Science, Mathematics & Statistics, *Magna Cum Laude*

EXPERIENCE

Research Specialist   Summer 2024 – Present
Naval Future Innovation Research Group, Republic of Korea Naval Headquarters

Graduate Research Assistant   Spring 2021 – Summer 2024
Department of Statistics, Colorado State University

Coding & Cookies Workshop Instructor   Fall 2019 – Spring 2024
Department of Statistics, Colorado State University
   Python: Working with data   Fall 2023, Spring 2024
   Tidy Data in R: Tidyverse   Fall 2021, Fall 2022, Spring 2023
   R Basics   Spring 2022

Statistics Private Tutor   Spring 2024
Department of Statistics, Colorado State University
   STAR 511 - Design and Data Analysis for Researchers I: R Software   Spring 2024

Student Organized Activities and Research Seminars (SOARS) Coordinator   Spring 2023
Department of Statistics, Colorado State University

Lead Teaching Assistant   Fall 2022, Fall 2023
Department of Statistics, Colorado State University

Graduate Teaching Assistant   Fall 2019 – Spring 2021
Department of Statistics, Colorado State University
   STAT 301: Introduction to Statistical Methods   Spring 2020 – Spring 2021
   STAT 201: General Statistics   Fall 2019

IT Department Student Employee   Fall 2016 – Spring 2019
Information Technology, St. Lawrence University

Student Mentor   Fall 2017 – Spring 2019
Peterson Quantitative Reasoning Center, St. Lawrence University

PUBLICATIONS

Published:

Weller, Z. D., **Im, S.**, Palacios, V., Stuchiner, E., & von Fischer, J. C. (2022). Environmental Injustices of Leaks from Urban Natural Gas Distribution Systems: Patterns among and within 13 US Metro Areas. *Environmental Science & Technology*.
   ✪ Selected for American Chemical Society (ACS) Editors' Choice

Mork D, **Im S**, Wilson A (2024). dlmtree: Bayesian Treed Distributed Lag Models. R package version 1.0.0, https://danielmork.github.io/dlmtree/, https://github.com/danielmork/dlmtree.

Im, S., Wilson, A., & Mork, D. (2025). Structured Bayesian Regression Tree Models for Estimating Distributed Lag Effects: The R Package dlmtree. *R Journal.*

Under Review / To be submitted:

Im, S., Mork, D., Leung, M., Weisskopf, M., Kioumourtzoglou, M-A., & Wilson, A. (2024). Treed Distributed Lag Mixture Model With Zero-Inflated Count Data to Investigate the Association Between Air Pollution and Pregnancy Loss. *Submitted to Statistics in Medicine.*

Im, S., Mork, D., & Wilson, A. (2024). Heterogeneous Distributed Lag Mixture Model for Precision Environmental Health with Longitudinally Assessed Mixture Exposures. *Submitted to Journal of the Royal Statistical Society Series C: Applied Statistics.*

HONORS & AWARDS

Pi Mu Epsilon (Mathematics Honor Society) President, St. Lawrence University	2019
Statistics Dr. O. Kenneth Bates Award, St. Lawrence University	Spring 2019
Dean's list, St. Lawrence University	Fall 2016 – Spring 2019

CONFERENCE & PRESENTATION

Poster presentation, *"Treed distributed lag mixture model with zero-inflated count data to investigate the association between air pollution and pregnancy loss"*, The Graduate Student Showcase, Colorado State University, Fort Collins, CO	November 2023
Poster presentation, *"Treed distributed lag mixture model with zero-inflated count data to investigate the association between air pollution and pregnancy loss"*, The EnviBayes Workshop, International Society for Bayesian Analysis (ISBA), Colorado State University, Fort Collins, CO	September 2023
Oral presentation, *"Treed distributed lag mixture model with zero-inflated count data to investigate the association between air pollution and pregnancy loss"*, Joint Statistical Meetings (JSM), American Statistical Association (ASA), Toronto, ON, Canada	August 2023
Poster presentation, *"Treed distributed lag mixture model with zero-inflated count data to investigate the association between air pollution and pregnancy loss"*, The Graduate Student Showcase, Colorado State University, Fort Collins, CO	November 2022
Oral presentation (virtual), *"Environmental justice of natural gas leaks"*, Colorado / Wyoming Chapter, American Statistical Association (ASA)	October 2021
Oral presentation (virtual), *"Environmental justice of natural gas leaks"*, Joint Statistical Meetings (JSM). American Statistical Association (ASA)	August 2021
Oral presentation (virtual), *"Environmental justice of natural gas leaks"*, Front Range Student Ecology Symposium (FRSES), Colorado State University, Fort Collins, CO.	March 2021

SKILLS

R: Basic R, Tidyverse, Rcpp, RStan, R package development
Python: NumPy, Pandas, Matplotlib
Structured Query Language (SQL): Proficient
Git: Git, GitHub
High performance computing (HPC): Proficient
Language: English – Bilingual Proficiency, Korean – Native

Last updated: July 1st, 2025