Seongwon Im

Seongwon.Im@colostate.edu
seongwonim.github.io

Data System Management 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

Advanced Technology Research Specialist — Summer 2024 – Present
Data System Management 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.

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 Annals of Applied Statistics.*

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.*

Im, S., Wilson, A., & Mork, D. (2024). Structured Bayesian Regression Tree Models for Estimating Distributed Lag Effects: The R Package dlmtree. *To be submitted to R Journal.*

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: November 1, 2024