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

Department of Statistics Colorado State University Fort Collins, CO 80523 – 1877

EDUCATION

Colorado State University, Fort Collins, CO

2019 - 2024

Ph.D., Statistics, in progress

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

R Basics

Graduate Research Assistant

Spring 2021 – Current

Department of Statistics, Colorado State University

Coding & Cookies Workshop Instructor

Fall 2019 - Current

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

Spring 2022

Statistics Private Tutor

Spring 2024 – Current

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

Information Technology, St. Lawrence University

Fall 2016 – Spring 2019

Peterson Quantitative Reasoning Center, St. Lawrence University

Fall 2017 - Spring 2019

PUBLICATIONS

Student Mentor

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 Biometrics.
- 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	

CONFERENCE & PRESENTATION	
Contributed:	
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
Oral presentation and poster, "Are there racist soccer referees?", Festival of Science, St. Lawrence University, Canton, NY.	April 2019
Oral presentation, "Are there racist soccer referees?", Mathematical Association of America (MAA) Seaway conference, St. John Fisher College, Rochester, NY.	April 2019

SKILLS

R: Basic R, Tidyverse, Rcpp, RStan Python: NumPy, Pandas, Matplotlib C++: R package development, GitHub

High performance computing (HPC): Proficient

Language: English – Bilingual Proficiency, Korean – Native

Last updated: June 1, 2024

PRESENTATION

- Invited
- contributed

PROFESSIONAL MEMBERSHIP

GRANTS & CONTRACTS