Fall 2016 – Spring 2019

Department of Statistics Seongwon.Im@colostate.edu seongwonim.github.io Colorado State University Fort Collins, CO 80523 – 1877 **EDUCATION** Colorado State University, Fort Collins, CO 2019 - 2024Doctor of Philosophy., Statistics Thesis: Bayesian Tree Based Methods for Longitudinally Assessed Environmental Mixtures Advisor: Dr. Ander Wilson Colorado State University, Fort Collins, CO 2019 - 2023Master of Science, Statistics St. Lawrence University, Canton, NY 2015 - 2019Bachelor of Science, Mathematics & Statistics, Magna Cum Laude **EXPERIENCE 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 Spring 2020 - Spring 2021 STAT 301: Introduction to Statistical Methods STAT 201: General Statistics Fall 2019

IT Department Student Employee 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

Contributed

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

Contributed:	
Poster presentation, "Treed distributed lag mixture model with zero-inflated count data to investigate the	November 2023
association between air pollution and pregnancy loss", The Graduate Student Showcase, Colorado State	
University, Fort Collins, CO	
Poster presentation, "Treed distributed lag mixture model with zero-inflated count data to investigate the	September 2023
association between air pollution and pregnancy loss", The EnviBayes Workshop, International Society for	
Bayesian Analysis (ISBA), Colorado State University, Fort Collins, CO	
Oral presentation, "Treed distributed lag mixture model with zero-inflated count data to investigate the	August 2023
association between air pollution and pregnancy loss", Joint Statistical Meetings (JSM), American Statistical	
Association (ASA), Toronto, ON, Canada	

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

Oral presentation (virtual), "Environmental justice of natural gas leaks", Colorado / Wyoming Chapter, American
Statistical Association (ASA)

October 2021

November 2022

Oral presentation (virtual), "Environmental justice of natural gas leaks", Joint Statistical Meetings (JSM). American

August 2021

Statistical Association (ASA)
Oral presentation (virtual), "Environmental justice of natural gas leaks", Front Range Student Ecology Symposium

March 2021

(FRSES), Colorado State University, Fort Collins, CO.

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.

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: August 1, 2024