

EDUCATION

Colorado State University , Fort Collins, CO <i>Doctor of Philosophy, Statistics</i> Thesis: <i>Bayesian Tree Based Methods for Longitudinally Assessed Environmental Mixtures</i> Advisor: Dr. Ander Wilson	2019 – 2024
Colorado State University , Fort Collins, CO <i>Master of Science, Statistics</i>	2019 – 2023
St. Lawrence University , Canton, NY <i>Bachelor of Science, Mathematics & Statistics, Magna Cum Laude</i>	2015 – 2019

EXPERIENCE

Research Specialist <i>Naval Future Innovation Research Group, Republic of Korea Naval Headquarters</i> Mandatory National Service — discharge scheduled late July 2026	Aug 2024 – Present
Graduate Research Assistant <i>Department of Statistics, Colorado State University</i>	Jun 2021 – Jul 2024
Graduate Teaching Assistant <i>Department of Statistics, Colorado State University</i>	Aug 2019 – May 2021
Student Mentor <i>Peterson Quantitative Reasoning Center, St. Lawrence University</i>	Aug 2017 – Jun 2019
IT Department Student Employee <i>Information Technology, St. Lawrence University</i>	Aug 2016 – Jun 2019

PUBLICATIONS

Published:

- Im, S.,** Wilson, A., & Mork, D. (2025). Structured Bayesian Regression Tree Models for Estimating Distributed Lag Effects: The R Package dlmtree. *R Journal*.
- Mork, D., **Im, S.,** & Wilson, A. (2024). dlmtree: Bayesian Treed Distributed Lag Models. Comprehensive R Archive Network (CRAN) package, version 1.1.0.
- 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

To be published / Under review:

- Leung, M., **Im, S.,** Rowland, S. T., Papatheodorou, S., Coull, B. A., Kioumourtzoglou, M-A., Weisskopf, M. G., & Wilson, A. (2026). Prenatal Exposure to Wildfire Smoke and Pregnancy Loss in Colorado, USA. *International Journal of Epidemiology*, to be published.
- Im, S.,** Mork, D., Leung, M., Weisskopf, M., Kioumourtzoglou, M-A., & Wilson, A. (2025). Treed Distributed Lag Mixture Model With Zero-Inflated Count Data to Investigate the Association Between Air Pollution and Pregnancy Loss. *Statistics in Medicine*, under review.
- Im, S.,** Mork, D., & Wilson, A. (2025). Heterogeneous Distributed Lag Mixture Model for Precision Environmental Health with Longitudinally Assessed Mixture Exposures. *Journal of the Royal Statistical Society Series C: Applied Statistics*, under review.

HONORS & AWARDS

Excellence Award – ROK Army Big Data Analytics Competition	Nov 2025
Excellence Award – ROK Navy & Marine Corps Artificial Intelligence Innovation Challenge	Jun 2025
Pi Mu Epsilon (Mathematics Honor Society) President, St. Lawrence University	Fall 2019
Statistics Dr. O. Kenneth Bates Award, St. Lawrence University	Jun 2019
Dean's list, St. Lawrence University	Fall 2016 – Spring 2019

PRESENTATIONS

The Graduate Student Showcase, Colorado State University, <i>poster</i>	2023
EnviBayes Workshop on Complex Environmental Data, International Society for Bayesian Analysis (ISBA), <i>poster</i>	2023
Joint Statistical Meetings (JSM), American Statistical Association (ASA), Toronto, ON, Canada, <i>oral</i>	2023
The Graduate Student Showcase, Colorado State University, <i>poster</i>	2022
Colorado/Wyoming Chapter, American Association (ASA), <i>oral (virtual)</i>	2021
Joint Statistical Meetings (JSM). American Statistical Association (ASA), Seattle, USA, <i>oral (virtual)</i>	2021
Front Range Student Ecology Symposium (FRSES), Colorado State University, <i>oral (virtual)</i>	2021

TEACHING

Courses

<i>Department of Statistics</i> , Colorado State University	
STAT 301: Introduction to Statistical Methods	Spring 2020 – Spring 2021
STAT 201: General Statistics	Fall 2019

Workshops

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

Tutored

<i>Department of Statistics</i> , Colorado State University	
STAR 511: Design and Data Analysis for Researchers I – R Software	Spring 2024
<i>Peterson Quantitative Reasoning Center</i> , St. Lawrence University	Fall 2017 – Spring 2019
STAT-325: Probability	
STAT-313: Advanced Statistical Models	
STAT-213: Applied Regression Analysis	
STAT-113: Applied Statistics	
CS-140: Intro to Computer Programming	
MATH-217: Linear Algebra	
MATH-136: Calculus II	
MATH-135: Calculus I	

SKILLS

R: Tidyverse, Rcpp, RStan/brms, R package development, Bayesian modeling

Python: NumPy, SciPy, Pandas, Matplotlib

Version Control: Git, GitHub

SQL: Proficient

High performance computing (HPC): Proficient

Language: English – Bilingual Proficiency; Korean – Native

Last updated: January 1st, 2026