


SAMUEL OZMINKOWSKI

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Education

University of Wisconsin-Madison

September 2020 – May 2022

Master of Science in Statistics

- Relevant Coursework: Mathematical Statistics, Statistical Inference, Theory and Application of Regression and Analysis of Variance, Mathematical Analysis I-II, Statistical Consulting, Statistical Methods for Epidemiology

University of Michigan-Ann Arbor

September 2014 – April 2018

Bachelor of Science with Distinction in Computer Science; Minor: Sociocultural Anthropology

- Relevant Coursework: Discrete Math, Linear Algebra, Calculus III, Machine Learning, Intro. Artificial Intelligence, Data Structures and Algorithms

Papers

- Identifying microbial drivers in biological phenotypes with a Bayesian Network Regression model, **Samuel Ozminkowski** & Claudia Solís-Lemus, in progress

Presentations

- Identifying microbial drivers in biological phenotypes with a Bayesian Network Regression model, **Samuel Ozminkowski** & Claudia Solís-Lemus, *Intelligent Systems for Molecular Biology*, Madison, WI, July 10-14, 2022

Posters

- Identifying microbial drivers in biological phenotypes with a Bayesian Network Regression model, **Samuel Ozminkowski** & Claudia Solís-Lemus, *Intelligent Systems for Molecular Biology*, Madison, WI, July 10-14, 2022
- Bayesian network regression with applications to microbiome data, **Samuel Ozminkowski** & Claudia Solís-Lemus, *JuliaCon*, Online, July 28-30, 2021
- Identifying microbial drivers in biological phenotypes with a Bayesian Network Regression model, **Samuel Ozminkowski** & Claudia Solís-Lemus, *U.S. Department of Energy Genomic Science Program PI Meeting*, Online, February 28 - March 1, 2022

Honors and Awards

Statistics M.S. Exam Special Mention

November 2021

University of Wisconsin-Madison

University Honors

Fall 2014, Fall & Winter 2015, Fall & Winter 2016

University of Michigan

William J. Branstrom Freshman Prize

Winter 2015

University of Michigan

Open-Source Software Development

Bayesian Network Regression

- Developed a new package for the Julia programming language to implement a Bayesian regression framework for network covariates.
- GitHub link: `BayesianNetworkRegression.jl`

Work Experience

Epic Systems Corp.

August 2018 – August 2020

Software Developer, Lab Charging Lead

Madison, WI

- Lead team of three developers to design and develop new full-stack web application to allow lab users to intake external orders and specimens using C#, JavaScript, SASS, & MUMPS
- Organized, designed, and completed development of bug fixes for laboratory charging

University of Michigan Information and Technology Services

May 2016 – July 2018

Canvas Crew

Ann Arbor, MI

- Assisted professors with change from CTools to Canvas online system
- Performed basic data analysis to gain information on the status of the transition
- Offered one-on-one help with course site design
- Performed technical troubleshooting of Canvas courses

Outreach, Teaching, and Leadership

Statistics for the Life Sciences

September 2020–December 2020

Teaching Assistant

UW-Madison

- Taught discussion sections, held office hours, and graded assignments for 60+ undergraduates
- Course material focused on basic statistics and R programming for biology students

Solís-Lemus Lab

May 2021 – Present

Research Mentor

UW-Madison

- Manage and mentor a statistics undergraduate student in testing a web application implementing clustering models
- GitHub link: Bioklustering

Biological Interactions Program/Solís-Lemus Lab

May 2021 – August 2021

Research Mentor

UW-Madison

- Provide mentorship to an undergraduate student studying biology in analyzing phylogenetic data

Epic Systems Corp.

June 2020 – August 2020

Internship Mentor

Madison, WI

- Mentored an undergraduate intern through successful development of a new graphing framework for laboratory results

PBS Wisconsin Education - Meet the Lab

Data Decoders: Superpowered by Computers

- Interviewed about statistics research for video geared toward elementary school students.
- WPBS link: Meet the Lab

Rotaract Michigan

January 2015 – April 2018

President – May 2017–April 2018

University of Michigan

- Oversaw 9-member Executive Board, ran semi-weekly board meetings
- Coordinated club activities with Rotary Club of Ann Arbor
- Planned semi-weekly meetings for general members

Local Service Committee – Chair 2016–2017

- Worked with leaders from local non-profits and volunteer organizations to organize service events for Rotaract Club members
- Planned week-long service trips with the Carolina Mountain Land Conservancy and Hiwassee River Watershed Coalition in western North Carolina

Code-M

May 2017 – April 2018

Executive Board Member

University of Michigan

- Organized tech talks with companies looking to recruit U of M students
- Organized and presented technical workshops and social events for club members

Technical Skills

Languages: Julia, Python, R, C#, JavaScript/TypeScript, MUMPS, C++

Technologies/Frameworks: Linux/Bash, Git/GitHub, R Shiny, .NET