


# SAMUEL OZMINKOWSKI

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## Education

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### 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

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

## Presentations

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- 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

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- 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
- 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
- Bayesian network regression with applications to microbiome data, **Samuel Ozminkowski** & Claudia Solís-Lemus, *JuliaCon*, Online, July 28-30, 2021

## Honors and Awards

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### 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

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### 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

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### 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

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### 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 – May 2022

*Research Mentor*

*UW-Madison*

- Managed 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

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

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