

# SAMUEL OZMINKOWSKI

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## Education

### University of Wisconsin-Madison

September 2020 – May 2022 (Expected)

*Pursuing Master of Science in Statistics*

- Relevant Coursework Completed: Mathematical Statistics, Statistical Inference, Theory and Application of Regression and Analysis of Variance
- Relevant Coursework In Progress: Real Analysis, Statistical Consulting

### 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

## Research Projects

### Bayesian Network Regression

January 2021 – Present

*Advisor: Claudia Solís-Lemus*

*UW-Madison*

- Develop a Bayesian Regression framework for networks constructed from microbiome phylogenetic distances
- Create a software package in the Julia programming language to perform microbiome network analysis

## Presentations and Posters

### Posters

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

## Teaching and Mentorship

### 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 – August 2021

*Research Mentor*

*UW-Madison*

- Manage and mentor a statistics undergraduate student in testing clustering models

### 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

## 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

## Leadership Experience

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### 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 a service trip to the Carolina Mountain Land Conservancy
- Taught the scientific method to third graders at Estabrook Elementary (Ypsilanti, Mi)
- Planned a science fair for third grade students

### 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

## Honors and Awards

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### University Honors

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

*University of Michigan*

### William J. Branstrom Freshman Prize

*Winter 2015*

*University of Michigan*

## Technical Skills

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

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