MATT SCHWENNESEN

University of Wisconsin - Madison

Madison, WI

@ mjschwenne@gmail.com

@ schwennesen@wisc.edu

% schwennesen.org

github.com/mjschwenne

EDUCATION

RESEARCH EXPERIENCE

Locality Sensitive Hashing of Polygons

Research Experiences for Undergraduates - Marquette University

May 2022 - August 2022

Milwaukee. WI

 Researched uses of locality sensitive hashing for approximate nearest neighbor searches over polygons, including creation of a C++ implementation.

Asymmetric Traveling Salesperson Approximation

Google Summer of Code - NetworkX

May 2021 - August 2021

Remote

- Implemented approximate asymmetric traveling salesperson algorithm
- Perform critical analysis of relevant graph theory research papers

CONFERENCES

NetSci 2024

June 17-21, 2024

Quebéc City

• Presented NetworkX tutorial for Software Tools for Supporting Network Science.

Oregeon Programming Languages Summer School

June 3-13, 2024

₱ Boston, Massachusetts

PROJECT EXPERIENCE

NetworkX Core Developer

Open Source Graph Analysis Library

M October 2021 - Present

Remote

NetworkX Visualization API Overhaul

June 2024 - August 2024

Remote

TEACHING & MENTORING EXPERIENCE

Department of Computer Sciences Head Teaching Assistant

CS 400 - Programming III

🛗 January 2024 - Current

Madison, WI

Department of Computer Sciences Teaching Assistant

CS 400 - Programming III

August 2023 - December 2023

Madison, WI

College of Computing Lab Instructor

CS 1121 - Introduction to Programming I

🛗 January 2023 - May 2022

♥ Houghton, MI

College of Computing Teaching Assistant

CS 3411 - Systems Programming

September 2022 - May 2022

♀ Houghton, MI

College of Computing Learning Center Coach

🛗 January 2021 - December 2022

University of Wisconsin -

Madison

Ph.D. of Computer Science

August 2023 - Current

• GPA: 3.864

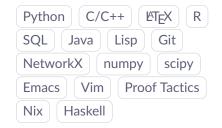
Michigan Technological University

BS of Computer Science

[™] December 2022 **?** Houghton, MI

- Minor in Mathematical Sciences
- GPA: 4.0

SKILLS



AWARDS

- Dean's List. 7 semesters
- Certificates of Merit in:
 - Combinatorics & Graph Theory
 - Optimization & Graph Algorithms
 - Statistical Programming
 - Regression Analysis
 - Predictive Modeling

CO-CURRICULAR

Huskies Pep Band

Tenor Saxophone

August 2019 - May 2023

LEADERSHIP

10r Section Leader

Huskies Pep Band

May 2022 - May 2023