

MATT SCHWENNESEN

University of Wisconsin – Madison

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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 📍 Québec City

- Presented NetworkX tutorial for *Software Tools for Supporting Network Science*.

Oregon Programming Languages Summer School

📅 June 3-13, 2024 📍 Boston, Massachusetts

PROJECT EXPERIENCE

NetworkX Core Developer

Open Source Graph Analysis Library

📅 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 📍 Houghton, MI

EDUCATION

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