Yumian Cui

https://yumian-cui.github.io/

Email : cuiyumian0529@gmail.com

Mobile : +1-608-422-3160

EDUCATION

University of Wisconsin-Madison — Madison, WI
- *Bachelor of Science, Data Science and Economics; GPA: 3.806/4.0* — *Sep 2018 – May 2023*
  *Minor: Computer Sciences; Dean's Honor List * 1, Dean's List * 3*

WORK EXPERIENCE

Madison Symphony Orchestra Inc — Madison, WI
Data & Analytics Manager — *Jul 2023 - Present*
- **Analyze** audience and donor trends data to inform decision-making in development and marketing
- **Manage** symphony databases and support tech-driven automation solutions for enhanced organizational efficiency

Madison School & Community Recreation (MSCR) — Madison, WI
Technical Programmer — *Jun 2022 - Present*
- **Develop** and optimize features for the employee database and timekeeping system using Google Apps Script
- **Analyze** employee data to monitor and report on retention and turnover rates
- **Implement** analytical models to identify barriers and inefficiencies in the pre-employment process

Traffic Operations and Safety Laboratory @ CEE — Madison, WI
IT System Engineer Assistant — *Jun 2022 - Sept 2022*
- **Assisted** in managing a 100+ virtual server environment using Server Manager, BigFix, and Qualys
- **Helped** build Windows and Linux servers and monitored server and application performance

UW-Madison Statistics Learning Center — Madison, WI
Stat 240 Introduction To Data Modeling I Peer Mentor — *Aug 2021 - Dec 2021*
- **Led** online drop-in office hours to help students with R programming
- **Trained** in Statistics Learning Center and the UW-Madison Tutor Development Conference

UW-Madison Department of Computer Science — Madison, WI
CS 220 Data Programming I Peer Mentor — *Jan 2021 - May 2022*
- **Facilitated** office hours, providing one-on-one assistance to students with Python coding issues
- **Led** lab sections, guiding students through lab code and assisting TAs with student inquiries
- **Designed** weekly quiz questions for the course as part of a team of 3

ACADEMIC EXPERIENCE

UW-Madison Department of Computer Science — Madison, WI
Research Assistant — *Jun 2022 - Present*
- **Lead** an accessible tabular data exploration project for the visually-impaired (advisor: Prof. Yea-Seul Kim)
- **Conduct** formative studies, literature review, and design iterative prototypes using JavaScript, HTML, CSS

Wisconsin Science and Computing Emerging Research Stars (WISCERS) — Madison, WI
Research Fellow & Assistant — *Feb 2021 - Aug 2022*
- **Admitted** as one of 19 school-wide to Google-funded research mentorship program (advisor: Prof. Vivak Patel)
- **Researched** RNN-based optimization, specifically mitigating adjoint decay/explosion during backpropagation
- **Designed** and conducted experiments, analyzed large-scale data to distill insights, and reported on findings

PUBLICATIONS

- Hao, H., **Cui, Y.**, Wang, Z., & Kim, Y. S. (2022). Thirty-Two Years of IEEE VIS: Authors, Fields of Study and Citations. IEEE Transactions on Visualization and Computer Graphics.

PROGRAMMING SKILLS

- **Language**: Python, Java, R, C++, SQL, LaTeX, HTML, JavaScript, Julia, Matlab, Stata
  Technology: Git, Microsoft (Excel, Word, PowerPoint), TensorFlow, Google Apps Script, BigFix