Kyllan Wunder

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kyllan.dev

Education

- **Michigan State University**, College of Natural Science
  - M.S. Data Science (Intended 2025 Graduation)
- **University of Wisconsin-Madison**, College of Letters and Sciences
  - B.S. Computer Science

Research Experience

COVID-19 Wastewater Research (UW Madison Undergraduate)

- In collaboration with Wisconsin's Department of Health Services and Wisconsin's State Lab of Hygiene
  - DHS COVID-19 Wastewater
- Analyzing COVID-19 particles in wastewater for pandemic spread predictions
  - Results on GitHub
- Developed an R package for the analysis of COVID-19 wastewater data
  - R Package on GitHub

Work Experience

Michigan State University Institute for Cyber-Enadled Research (MSU Graduate)

- Developing innovative solutions to a broad spectrum of software challenges
  - Experience in: Easybuild, Flask - Celery - Redis stack, EESSI, CentOS7, LLMs

UW Madison Department of Statistics IT (UW Madison Undergraduate)

- IT support for the statistics department, focusing on IT management systems and end-user support.

    - Experience in: Linux, Bash, High Throughput Computing, IT management systems, SLURM

Technical Skills

Data Science

- **Data Analysis**: Proficient in data analysis, visualization, and machine learning
- **Data Wrangling**: Experience in cleaning and preparing data for analysis
- **Statistical Analysis**: Proficient in statistical modeling, analysis, and hypothesis testing

Programming Languages

- **Advanced Proficiency**: Python, R, SQL, Bash
- **Intermediate Knowledge**: HTML, CSS, JavaScript
- **Basic Understanding**: C, C++, Java, Mojo

High-Performance Computing Clusters

- **Both sides of the stack**: Experience in both user and system administration roles
- **SLURM Workload Manager**: Proficient in managing and submitting jobs to SLURM clusters
- **Easybuild**: Experience in building and managing software stacks for HPC clusters (some experience with EESSI)

Systems and Operations

- **Design**: Experienced in game design, database architecture, and project management
- **Operating Systems**: Proficient in many Linux system administration and troubleshooting (CentOS, Ubuntu, Debian)
- **Virtualization and Containerization**: Knowledgeable in deploying and managing containerized applications using Docker

Honors and Awards

- **Eagle Scout**: Led over 40 volunteers and completed over 250 hours of service to build recess equipment for my elementary school.