

Philip Wisniewski

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Education

Purdue University

B.S. Computer Science

GPA: 4.0/4.0, Honors College

Key Courses: Object Oriented Programming, Data Structures and Algorithms, Computer Architecture, Discrete Math

West Lafayette, IN

August 2023 – May 2027

Experience

Research Intern

Rosen Center for Advanced Computing

West Lafayette, IN

May 2024 – Present

- Researched and developed a queue time prediction model using historical data from the SLURM workload manager on the ANVIL supercomputing cluster.
- Trained a densely connected feedforward neural network with PyTorch, integrating it into a command line tool for enhanced operational efficiency.
- Utilized Python, R, PyTorch, PostgreSQL, and SLURM to investigate, store, and calculate trends in data.

Research Intern

Mayo Clinic

Rochester, MN

June 2022 – August 2023

- Researched and predicted cancer cell line drug resistance utilizing artificial intelligence from various genetic data.
- Investigated effects of specific omic data and pathway expressions on modeling.
- Presented findings at two poster conferences (Explore the Exposome: Individualizing Medicine Conference and Mayo Clinic SURF Symposium).

Technical Skills

Languages: Python, C, C#, Java, SQL (Postgres), R

Developer Tools: Git, Docker, Rancher, VS Code, Visual Studio, PyCharm, IntelliJ, Spyder, Lex, Yacc

Libraries: Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, Scikit-Learn

Publications

- Lovell A*, **Wisniewski P***, Rodenbeck S, Ashish. "A Hierarchical Deep Learning Approach for Predicting Job Queue Times in HPC Systems." *Proceedings of HUST-24: 11th International Workshop on HPC User Support Tools, Supercomputing '24 Conference*, 2024.
- Meng-Lin K, Ung CY, Zhang C, Weiskittel TM, **Wisniewski P**, Zhang Z, Tan SH, Yeo KS, Zhu S, Correia C, Li H. SPIN-AI: A Deep Learning Model That Identifies Spatially Predictive Genes. *Biomolecules*. 2023 May 27;13(6):895.
- Weiskittel TM, Cao A, Meng-lin K, Lehmann ZJ, Feng B, Correia C, Zhang C, **Wisniewski P**, Zhu S, Ung CY, Li H. Network biology inspired machine learning features predict cancer gene targets and reveals target coordinating mechanisms. *Pharmaceuticals (Basel)*. 2023 May 16;16(5):752.

* Designates co-first authorship

Awards

- Dean's List and Semester Honors for all semesters
- National Merit Scholar Finalist
- AP Scholar with Distinction
- Presidential Scholar Candidate