



2024 HAUBER FELLOWS

Using combinatorial frequency approaches to determine suitability of machine learning datasets

Hauber Fellow: Fenrir Badorf

Faculty Mentor: Dr. Megan Olsen, Computer Science

Construction of Hadamard Matrices

Hauber Fellow: Leiyla Brent

Faculty Mentor: Dr. Sudeshna Basu, Mathematics and Statistics

Exploring the Capabilities of Various Large Language Models to Solve Complex Programming Problems

Hauber Fellow: Lyric Campbell

Faculty Mentor: Dr. Nguyen Ho, Computer Science

Comparison of passive and active temperature control approaches for food storage and transport

Hauber Fellow: Dylan Covington

Faculty Mentor: Dr. Suzanne Keilson, Engineering

Graph Coloring with Restricted Colors
Hauber Fellow: Alejandro Escorcia

Faculty Mentor: Dr. Michael Knapp, Mathematics and Statistics

Perception-Based Road Hazard Detection System for Enhanced Vehicle Safety

Hauber Fellow: Silas Green

Faculty Mentor: Dr. Hoyeon Kim, Engineering

Automation and Machine Learning: How a Robot Can Conduct Experiments Using Gaussian Process

Hauber Fellow: Miller Gruen

Faculty Mentor: Dr. Mary Lowe, Physics

Improving Loop Performance Through Parallelization: A Comparative Analysis of Retiming and Loop

Unrolling

Hauber Fellow: Emma Heiser

Faculty Mentor: Dr. Hoang Bui, Computer Science





2024 HAUBER FELLOWS

The development of methods to detect the presence of caffeine and nicotine in urban streams

Hauber Fellow: Skylar Katchko

Faculty Mentor: Dr. Elizabeth Dahl, Chemistry and Biochemistry

Investigating the role of NPAS4 in cognitive outcome in aging

Hauber Fellow: Gwenyth Lowery

Faculty Mentor: Dr. Craig Myrum, Biology

Numerical Approximations of Multiphysics Flows

Hauber Fellow: Joshua Manset

Faculty Mentor: Dr. Prince Chidyagwai

The development of methods to detect the presence of caffeine and nicotine in urban streams

Hauber Fellow: Clare Noone

Faculty Mentor: Dr. Elizabeth Dahl, Chemistry and Biochemistry

Efficient Electromagnetic Material Characterization: A Comparative Study of Metaheuristic Optimization

Algorithms

Hauber Fellow: William Sears

Faculty Mentor: Dr. Raenita Fenner, Engineering

The Relationship between Cognitive Outcome, Sleep, & Aging: Evaluating the Fischer-344 Rat Model

Hauber Fellow: Brianne Smith

Faculty Mentor: Dr. Craig Myrum, Biology

The Relationship between Cognitive Outcome, Sleep, & Aging: Evaluating the Fischer-344 Rat Model

Hauber Fellow: Bradley Stinnette

Faculty Mentor: Dr. Craig Myrum, Biology

Automation and Machine Learning: How a Robot Can Conduct Experiments Using Gaussian Process

Hauber Fellow: Adrian Timin

Faculty Mentor: Dr. Mary Lowe, Physics





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Hauber Fellow: Hans van Lierop

Faculty Mentor: Dr. Megan Olsen, Computer Science

Enhancing Data Synthesis for Privacy-Preserving In Recommender System

Hauber Fellow: Christian Walsh

Faculty Mentor: Dr. Eric Cui, Computer Science

Investigation of Turbulence Model Impact on Numerical Simulation of Savonius Vertical Axis Wind

Turbines

Hauber Fellow: Brady Westerberg

Faculty Mentor: Dr. Robert Bailey, Engineering

Evaluation of SLAM for Static and Dynamic Environments: Establishing a Benchmark in Autonomous

Mobile Robotics Research Hauber Fellow: Ryan Ziegler

Faculty Mentor: Drs. David Hoe and Hoyeon Kim, Engineering