

Data Science

POSTER SESSION

Unity Hall 500

Group A 12:00pm to 1:30pm

#A

Building a Platform for Data Visualization Learning

Joseph Dobbelaar (CS), Luke Foley (CS), Ryker Germain (DS), Matthew McAlarney (CS)

Advisors: Lane Harrison

#A

Deep Learning Analysis of Neuroimaging (MRI) Data

Olivia Deckers (BCB), Jonathan Golden (CS), Vivek Kandasamy (BCB), Pitipat Kongsomjit (DS)

Advisors: Dmitry Korokin, Benjamin Nephew, Angela Incollingo Rodriguez (co-advisor)

#A

FinTech Project B23 - Enhancing Investment Management - Data Science

Dante Amicarella (DS), Sarah LaRusso (Math/CS), Maya Liao (DS), Nathan Shemesh (CS)

Advisors: Marcel Blais, Rob Sarnie, Wilson Wong

#A

Leveraging Product Analytics to Streamline Application Flows and Triple User Retention for Perr, a File-sharing Application

Justin Luce (CS), Michael McInerney (CS), Aidan Syrgak Uulu (DS)

Advisors: Chun-Kit Ngan

#A

Machine Learning for Predicting Effectiveness of Mindfulness for Chronic Pain Reduction

Adeline Evans (CS), Adina Palayoor (CS/DS)

Advisors: Carolina Ruiz

#A

Post-Disaster Aid Distribution

Maxime Anderson (DS), Brock Dubey (DS), Kaycie Lam (Math), Madelyn Marcotte (DS), Justin Vo (DS/MIS)

Advisors: Andrew Trapp, Bengisu Tutu

#A

RAPIDS: Rapid AI Platform for Innovating Data Science

Jai Patel (CS), Caleb Talley (CS), Natasha Usrey (CS/DS)

Advisors: George Heineman, Xiaozhong Liu

#A

Sustainability Insights: Navigating Environmental Challenges through Data Exploration

Charlotte Carter (DS), Brandon Luong (CS), Sydney Peno (DS)

Advisors: Torumoy Ghoshal

#A

Supervised Machine Generated Text Detection Using LLM Encoders in Various Data Resource Scenarios

Marc Capobianco (CS/DS), Duong Luong (DS), Charles Phelan (DS), Matthew Reynolds (DS), Krish Shah-Nathwani (DS)

Advisors: Kyumin Lee

#A

Z3-Wellness: Evaluating and Improving a Sleep Wellness Application for College-Age Students

Sultan Adedeji (CS), Benjamin Bagley (CS), Camilo Escobar (CS), Jack Hanlon (CS), Matthew Lacadie (CS), Seungho Lee (CS), Justine Moy (DS),

Mackenzie Pryor (DS), Lucas Sicard (CS), Parker Van Ham (CS)

Advisors: Carolina Ruiz

Group B 2:00pm to 4:00pm

#B

A Data-driven Analytical Approach for Improving Endurance Runners' Performance

Mason Perham (DS), Ethan Rudometkin (DS)

Advisors: Chun-Kit Ngan

#B

A Data-driven Framework for Competitive Machining Industry: Database, Analysis, and Dashboard

Kendall Haddigan (DS), Daniel Thu (DS)

Advisors: Fatemeh Emdad, Chun-Kit Ngan

#B

Addressing Imbalanced Data in Machine Learning: Methods and Challenges

Bishoy Soliman Hanna (DS)

Advisors: Ziming Zhang

#B

Customizing Large Language Models for Automated Academic Advising at Universities

Ronit Banerjee (CS/DS), Kathryn Butziger (CS), Jose Fabrizio Filizzola Ortiz (CS), Matthew Kiszla (CS)

Advisors: Xiangnan Kong

#B

Design of AI-enabled Chatbot

Federico Perez (DS), Colin Mettler (CS), Xiao Xiao (CS), Guillermo Morel Mendez (CS), Rolando Salamea-Lopez (ECE), QiHan He (ECE), Hrishikesh Nair (ECE), Quincy Payne (ME)

Advisors: Lin Cheng, Bo Tang

#B

DraftKings Fantasy Sports Data Analytics

Abigail Albuquerque (DS), Vagmi Bhagavathula (CS/DS), Kristin Lavoie (DS), Owen Radcliffe (CS), Eric Schuman (DS)

Advisors: Donald Brown, Randy Paffenroth

#B

Drone-Based Intelligent Soil Sub-Surface Characterization

Nicholas Latsis (DS), Ethan Reed (DS), Joshua Thurber (DS)

Advisors: Doug Petkie, Seyed Zekavat

#B

EcoTarium Explorer: Increasing Accessibility at the Worcester EcoTarium

Joseph Fox (DS), Owen McGinley (CS), Dylan Olmstead (DS), Dylan Phillips (CS), Brandon Vuong (CS)

Advisors: Rodica Neamtu

#B

Extending Course Planner for Broader Academic Coverage

Jennifer Kimball (DS), Matthew Suyer (DS)

Advisors: Andrew Trapp

#B

FACET System: Finding Actionable Explanations for Unwanted AI Predictions

Katherine Dion (DS), Belisha Geninn (CS/RBE), Randy Huang (CS), Alexander Pietrick (CS/DS), Jacob Reiss (CS)

Advisors: Elke Rundensteiner

#B

FinTech Project B23 - Fidelity - Customer Data Exploration and Analysis with a Geo-Spatial Focus

Janette Jerusal (DS), Jack Lafond (DS), Sandra Phan (DS/MIS)

Advisors: Marcel Blais, Jim Ryan, Rob Sarnie

#B

How the Human Brain Makes Sense of Natural Scenes

Shivali Mani (DS), Alison McNicholas (CS), Jose Morales (CS)

Advisors: Ziming Zhang

#B

Implementing a New Beecology Project Web App Interface

Will Dufault (CS), Mattheus Faria (DS), Stevie Frisch (CS), Colin Fyock (CS)

Advisors: Carolina Ruiz, Elizabeth Ryder

#B

Implementing Butterfly Data Visualization Tools for the Beecology Project

Joanna Hu (CS), Bernard Nordermann (CS), Megan Sin (DS), Aria Yan (DS)

Advisors: Carolina Ruiz, Elizabeth Ryder

#B

Improving Job Matching through Skill

Elicitation

Sasha Daraskevich (DS), Ben Erwin (IE), Mikaela Milch (CS/DS), Nolan Willoughby (IE)

Advisors: Daniel Reichman, Andrew Trapp

#B

Creating a Comprehensive Pipeline for

Exploring Cultural Variance in Data

Visualization

Joselin Barbosa (CS), Katie Bowles (DS), Vivian Reno (CS)

Advisors: Lane Harrison

#B

Machine Learning, Image Processing, and Natural Language Processing for Handwritten Text Recognition

Matt Haley (DS), Liam Hall (CS), Christopher Langevin (DS), Cameron Norton (Math), Harsh Patel (CS), Elliot Trilling (CS/Math)

Advisors: Oren Mangoubi, Gregory Noetscher, Randy Paffenroth

#B

Mining Graph Patterns in Software

Development from Code Repositories

Nur Fateemah (CS/DS), Alexander MacDonald (CS), Jakob Simmons (CS), Ethan Vaz Falcao (DS/Math)

Advisors: Fabricio Murai, Frank Zou

#B

Predicting Students' Mental Health Using Fitbit

Data

Allison Escott (DS), Olivia Raisbeck (CS/DS), Kyle Lusignan (Math), Noah Pins (Math)

Advisors: Shichao Liu, Oren Mangoubi, Elke Rundensteiner