

MATHEMATICAL SCIENCES

Unity Hall 520

8:30am- Refreshments

9:00am

Project Title: An Application for Generating Bond Graphs on the Web.

Students: Margaret Earnest (CS), Jakob Misbach (CS, math minor), Anthony Vuolo III (MA/CS)

Advisors: Brigitte Servatius, David C. Brown, Pradeep Radhakrishnan

9:15am

Project Title: Risk Indifference Pricing of American Put Options.

Students: Frederick "Forrest" Miller

Advisors: Stephan Sturm

9:30am

Project Title: Multiscale Muscle Modeling

Students: Liz Cole

Advisors: Sam Walcott

9:45am

Project Title: Extracting and Visualizing Wildlife Trafficking Events from Online News Articles

Students: Julie Andrade, Michael Geary, Bao Huynh

Advisors: Oren Mangoubi, Renata Konrad, Kyumin Lee

10:00am

Project Title: Tiling of Prime and Composite Kirchhoff Graphs.

Students: Jessica Wang

Advisors: Joseph D. Fehribach

10:15am Break

10:30am

Project Title: Methods for Learning What Works in Educational Technology

Students: Anshika Jain, Brendan King

Advisors: Adam Sales

10:45am

Project Title: Open-Source FPGA Implementation of Number Theoretic Transform for CRYSTALS-Dilithium.

Students: Brandon Voci

Advisors: Herman Servatius, Patrick Schaumont (Electrical and Computer Engineering)

11:00am

Project Title: Non-Linear Dimension Reduction of Crypto-Currency Data.

Students: Lyra Layne, Cole Peterson, Ben Rajotte, Taenler Tavares

Advisors: Stephan Sturm, Fangfang Wang

11:15am

Project Title: Fidelity: AI Based Anomaly Detection

Student Names: Aruzhan Koshkarova, Nathan Kumar, Mitchell Sirois, Austin Zhou

Advisor(s): Marcel Blais, Robert Sarnie, Wilson Wong

Sponsor: Fidelity

11:30am

Project Title: Make Business Data Actionable

Students: William Bazakas-Chamberlain, Michael O'Connor, Abigail Kihu, Shiyu Wu

Advisors: Marcel Blais, Robert Sarnie, Wilson Wong

11:45am

Project Title: Feasibility of PIPS Device for Applications in Neutron Radiation Measurement

Students: Nicole Dombrowski

Advisors: Marcel Blais, David Medich

12:00pm

Project Title: An M-Estimator for the Survivor Average Treatment Effect

Student: Lora Dufresne

Advisors: Adam Sales, Alexander Smith

12:15pm

Project Title: Machine Learning with User-Friendly Data Generation for Computer Vision-based Navigation

Students: Ryan Firenze, Margaret Munroe, Sebastian Pineda, Amos Roche, Arman Saduakas

Advisors: Oren Mangoubi

12:30pm

Project Title: Bamboo for Mining Reclamation and Renewable Energy

Students: Yiyi Wu

Advisors: Sarah Olson, Robert Krueger (SSPS, Director of Ghana Project Center), Berk Calli (RBE).

Sponsor: Ghana Project Center