Mathematical Sciences Dept.

Unity Hall 520

POSTER SESSION, 8:45am to 9:30am

Interactions of Per-Occurrence and Aggregate Deductibles

Abigail Barksdale, Allison McMorrow Advisor: Jon Abraham, Barry Posterro

Heat Loss Effects of Thermal Inactivation of Pathogens in Aerosols through Electromagnetic Heating

Kai Chhoeuk

Advisor: Burt Tilley

The association scheme of the dihedral group and its designs

Benjaminh Brodeur

Advisor: William J. Martin

Analyzing NFL Managerial Performance Using Sports Data

Evan Bettencourt

Advisor: Kenny Ching, Randy Paffenroth

BREAK, 9:30am to 9:45am

PRESENTATIONS, 9:45am to 12:15pm

9:45am

Machine Learning, Image Processing, and Transfer Learning for Handwritten Text Recognition

Matthew Haley, Liam Hall, Christopher
Langevin, Cameron Norton, Harsh Patel, Elliot
Trilling

Advisor: Oren Mangoubi, Randy Paffenroth

10:00am

Stochastic Modeling of Neuron Dynamics

Natalie Tierney

Advisor: Andrea Arnold

10:15am

Pricing Sequence Risk

Jack Cascone, Matthew Letourneau, Zachary

Pitts

Advisor: Jon Abraham, Barry Posterro

10:30am

The Statistics of Subsequences

Chase Miller, Andrew Salls, Duncan Soiffer Advisor: George Heineman, Daniel Reichman,

Gabor Sarkozy

10:45am

3D Image Reconstruction of a Fossil Using Neutron Tomography

Augustine Benjamin, Scarlett Clarke

Advisor: David C. Medich, Vadim V. Yakovlev

BREAK, 11:00am to 11:15am

11:15am

Waste Pavillion

Megan Tupaj

Advisor: Brigitte Servatius, Herman Servatius

11:30am

Delsarte \mathcal{T} -designs in the dihedral groups

Sycamore Herlihy

Advisor: William J. Martin

11:45am

Machine Learning for System Identification and Parameter Estimation

Caitlin Ho

Advisor: Andrea Arnold

12:00pm

Dynamical Systems Approaches for Deep

Learning

Neil Kale

Advisor: Randy Paffenroth