

MATHEMATICS CAPSTONE PRESENTATIONS, APRIL 28–MAY 4, 2017

Friday, April 28, Yost 306

**2:00 Sararose Nassani** (Appl Math), *Modeling malaria epidemics via fractional Poisson processes* (Advisor: Prof. Woyczynski)

Tuesday, May 2, Yost 306

**1:30 Dayang Fang** (Statistics), *The Analysis of multivariate linear model of Chinese real estate price* (Advisor: Prof. Williamson)

**2:00 Jacob Caprara** (Statistics), *Building a Predictive Model for Ohio Election Turnout* (Advisor: Prof. Williamson)

Tuesday, May 2, Yost 101

**2:00 Yang Bai** (Appl Math), *Nonlinear Time Series* (Advisor: Prof. Woyczynski)

**2:30 Tian Jin** (Appl Math), *Long memory time series with applications to finance* (Advisor: Prof. Woyczynski)

**3:00 Shuo Wang** (Appl Math), *Black-Scholes formula and applications to real world data* (Advisor: Prof. Woyczynski)

**3:30 Ruhua Zhang** (Appl Math), *Estimating the probability of winning the basketball game in NBA* (Advisor: Prof. Woyczynski)

Wednesday, May 3, Yost 306

**10:00 Xiaohui Tu** (Math), *ARMA models and forecasting* (Advisor: Prof. Woyczynski)

**10:30 Erin Howe** (Stat), *Prediction problems for stationary time series with applications to financial data* (Advisor: Prof. Woyczynski)

**1:00 Akhila Sriram** (Math), *Looking into Fermat's Last Theorem* (Advisor: Prof. Singer)

**1:30 Kai Smith** (Math), *Using pairs of line-pairs to control level set diagrams of cubic polynomials  $f(x, y)$*  (Advisor: Prof. Langer)

Thursday, May 4, 1:00 – 2:30, Yost 306

**Isabelle Wagner** (Stat), *Salaries of NFL Quarterbacks* (Advisor: Prof. Brynjarsdottir)

**Thomas Nolan** (Stat), *Modeling the NCAA Basketball Tournament Selection Process* (Advisor: Prof. Brynjarsdottir)

**Adam Thompson** (Stat), *Analysis of Relevant Factors in Survival Rates of Breast Cancer Patients* (Advisor: Prof. Mondal)