

MAMS CAPSTONE PRESENTATIONS SPRING 2021

Friday Morning, May 14

9:30 Yiqi Chen (Applied Math), Disease transmission in connected meta-population systems (Advisor: Prof. David Gurarie)

10:00 Audrey Tsoi (Applied Math/Stat), Modelling Covid-19 Transmission on a College Campus (Advisors: Prof. David Gurarie and Prof. Anirban Mondal)

10:30 Iris Zhang (Applied Math), Applications of Locally Binary Pattern in Genre and Century Classification of Artwork (Advisor: Prof. Daniela Calvetti)

11:00 Lin Yang (Math), Polygonal Numbers (Advisor: Prof. David Singer)

11:30 Zeyang Zhang (Math), Discussion on Properties of Fibonacci Primes Mod M.

(Advisor: Prof. David Singer)

Friday Afternoon, May 14

1:00 Mark Swiler (Applied Math), Tracking COVID-19 Spread: an Agent Based Approach (Advisor: Prof. Daniela Calvetti)

1:30 Morgan Miller (Applied Math), Magnetic Resonance Image Resolution Enhancement and Denoising (Advisor: Prof. Weihong Guo)

2:00 Julia Pelesco (Math-Physics), A Markov Simulation of Reverse Evolution on Tunably Correlated Fitness Landscapes (Advisor: Prof. Harsh Mathur)

2:30 Marina D'Agostino (Math), Interactions between functors and limits (Advisor: Prof. Nick Gurski)

3:00 Benjamin Smith (Math-Physics), Random Processes in Systems: A Review of Works on Markov Processes (Advisor: Prof. Wojbor Woyczynski)

3:30 Michele Capovilla-Searle (Math), Hyperbolicity of Select Alternating Knots (Advisor: Prof. David Singer)

Monday Afternoon, May 17

2:30 Joseph Laurienzo (Math-Physics), Distinguishing meditation styles based on brain activity using self-organizing maps (Advisor: Prof. Erkki Somersalo)

3:00 Andreas Kowald (Math), Lattices, Logic, and the Lindenbaum Algebra (Advisor: Prof. Colin McLarty)