11th Annual Davis Math Conference
Schedule and Abstracts

Organizing Committee: Brittany Leathers and Black Jiang

Thursday, January 28, 2021

<u>Schedule</u>

Mathematical Biology	9:30 AM - 9:55 AM	Rishidev Chaudhuri
Mathematical Biology	10:00 AM - 10:25 AM	Leighton Izu
Coffee Break		
Analysis	11:00 AM - 11:25 AM	Kevin O'Neill
Topology	11:30 AM - 11:55 AM	Roger Casals
Lunch Break		
Atmospheric Dynamics	1:30 PM- 1:55 PM	Terry Nathan
Reinforcement Learning	2:00 PM - 2:25 PM	Xin Liu
Coffee Break		
Combinatorics	3:00 PM - 3:25 PM	Anastasia Chavez
Coffee Break		
Algebraic Geometry and Combinatorics	4:00 PM-4:25 PM	Eugene Gorsky

Titles and Abstracts

1 Rishidev Chaudhuri - Mathematical Biology

Title: Why are brains so noisy?

Abstract: [TBA]

2 Leighton Izu - Mathematical Biology

Title:

Abstract: [TBA]

3 Kevin O'Neill - Analysis

Title:

Abstract: [TBA]

4 Roger Casals - Topology

Title:

Abstract: [TBA]

5 Terry Nathan- Atmospheric Dynamics

Title:

Abstract: [TBA]

6 Xin Liu - Reinforcement Learning

Title: Reinforcement Learning: Algorithm Development and Applications

Abstract: [TBA]

7   Anastasia Chavez - Combinatorics

Title:

Abstract: [TBA]

8   Eugene Gorsky - Algebraic Geometry & Combinatorics

Title: Braid Varieties

Abstract: I will define braid varieties, a class of affine algebraic varieties associated to positive braids, and describe some of their properties. This is a joint work with Roger Casals, Mikhail Gorsky and Jose Simental Rodriguez.