

Applied Math 1st Year Math 586A Research Conference
Thursday, December 16th and Friday, December 17th, 2021

Zoom link for both days: <https://arizona.zoom.us/j/83537182098> Password: 143244 (same both days)

Thursday, December 16th:

Time	Student Name / Faculty Advisor	Talk Title
9:00-9:20	Woody March-Steinman/Andrew Paek	Cell Signaling Dynamics
9:20:9:40	Edward McDugald/Leonid Kunyansky	Conductivity Equation
9:40-10:00	Ben Stilin/Misha Chertkov	Physics Informed Neural Networks
10:00-10:20	<i>Break</i>	
10:20-10:40	Aaron Larsen / Ibrahim Fatkuklin	Models of Cluster Behavior
10:40-11:00	Sheila Whitman / Neng Fan	Configuration of Microgrids for Net-Zero Healthcare Facilities
11:00-11:20	Teddy Meissner/ Ryan Gutenkunst	Diffusion models in Population Genetics

Friday, December 17th:

Time	Student Name / Faculty Advisor	Talk Title
9:00-9:20	Riyaz Ray Vachani / Laura Miller	Larval settlement
9:20:9:40	Akshita Sharma/Timothy W. Secomb	Oxygen Transport in Microcirculatory Networks
9:40-10:00	Ari Bormanis / Don Wang	Periodic Occurrence of Chaotic Behavior of Homoclinic Tangles
10:00-10:20	<i>Break</i>	

10:20-10:40	Ana Isabel Fernández Sirgo / Rick Michod	Culture as an ETI
10:40-11:00	Sam Nasreldine/ Peter Chesson	Dynamics of Species Coexistence
11:00-11:20	Jackson Zariski/ CK Chan	PCA Alignment Optimization