



Joint PICSciE & CSML Graduate Certificate Colloquium

SPRING 2024

Wednesday, April 24, 1:00 PM - 4:30 PM
Convocation Room, 113 Friend Center, Olden Street

1:00-1:10 pm

Welcome Remarks

Prof. Michael Mueller, Program Director, Graduate Certificate in Computational Science & Engineering
Prof. Tom Griffiths, Program Director, Graduate Certificate in Statistics & Machine Learning

1:10-1:30 pm

Tal Rubin, Plasma Physics (Advisor: Prof. Nathaniel Fisch)

“Solving Multi-Fluid Equations in Curvilinear Coordinates, Combining Conservative Methods with Metric-Induced Sources”

1:30-1:50 pm

Marie-Lou Laprise, Sociology (Advisor: Prof. Brandon Stewart)

“Making Language Models Smarter: Leveraging Legal Logic for Enhanced Reasoning Capabilities”

1:50-2:10 pm

Charles Maher, Chemistry (Advisor: Prof. Salvatore Torquato)

“Hyperuniformity of Maximally Random Jammed Packings of Hyperspheres Across Spatial Dimensions”

2:10-2:30 pm

Luther Yap, Economics (Advisors: Profs. Michal Kolesar and David Lee)

“Asymptotic Theory for Two-Way Clustering”

2:30-2:50 pm

Break

2:50-3:10 pm

Joseph Lockwood, Geosciences (Advisor: Prof. Michael Oppenheimer)

“Modeling Tropical Cyclone and Coastal Risk in a Changing Climate: Machine Learning, Correlations, and Resilience”

3:10-3:30 pm

Nick McGreivy, Plasma Physics (Advisor: Prof. Ammar Hakim)

“Weak Baselines and Reporting Biases Lead to Overoptimism in Machine Learning for Fluid-Related Partial Differential Equations”

3:30-3:50 pm

Jamie Chin Chiu, Psychology (Advisor: Prof. Yael Niv)

“Examining Variability in Depression, Anxiety, and Quality of Life Between Matched Samples of Treatment-Seekers and Non-Seekers”

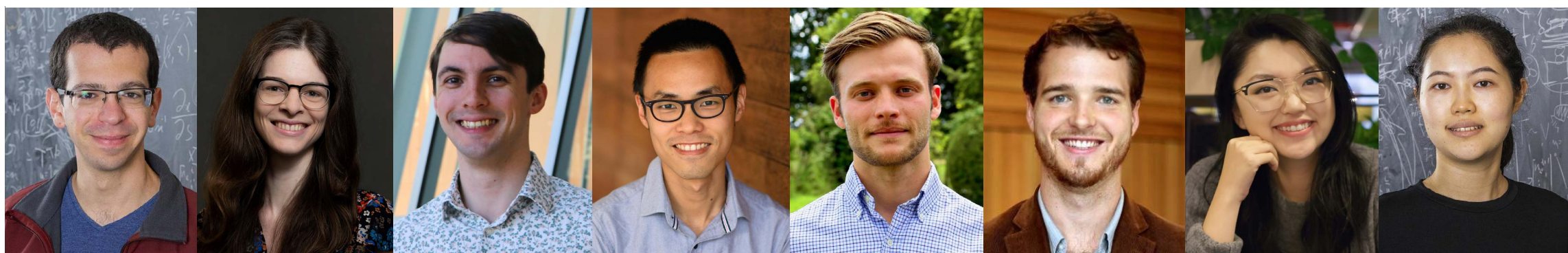
3:50-4:10 pm

Dingyun Liu, Plasma Physics (Advisor: Prof. Greg Hammett)

“Implicit BGK Collision Operator for Gyrokinetic Simulation with Moments-Conserving Maxwellian”

4:10-5:00 pm

Reception, Convocation Room, 113 Friend Center, Olden Street



Tal Rubin

Marie-Lou Laprise

Charles Maher

Luther Yap

Joseph Lockwood

Nick McGreivy

Jamie Chin Chiu

Dingyun Liu

Graduate Certificate in Computational Science & Engineering: <https://researchcomputing.princeton.edu/learn/cse-graduate-certificate>
Graduate Certificate in Statistics & Machine Learning: <https://csml.princeton.edu/graduate/certificate-program>