

Science Atlantic Mathematics, Statistics, and Computer Science Conference, October 22 - 24, 2021

Detailed Schedule Overview

Saturday Morning Session A: Computer Science Undergraduates

Time	Title	Speaker	Duration	Type
9:00	Metaheuristic Exploration via Deep Learning Object Localization	Mengyu Zang	20m	CS Undergraduate
9:20	Utilizing machine learning components to better optimize the Particle Swarm Optimization algorithm.	Essayas Kassa	20m	CS Undergraduate
9:40	Multilingual Phishing Email Detection Using Federated Learning	Dakota Staples	20m	CS Undergraduate
10:00	The Practical Efficiency of Regular Expression Membership Algorithms	Justin Gray	20m	CS Undergraduate
10:20	BREAK		10m	
10:30	A Novel Approach to Modelling Risk Factors for Mass Murder	Ethan C. Draper, Ethan S. Heavey	20m	CS Undergraduate
10:50	Security in the World of IoT	Mohammadhossein Moghaddas Jafari	20m	CS Undergraduate
11:10	Improving The TLS Client Puzzle Extension's Design Against DDoS Attacks.	Emmanuel Blay	20m	CS Undergraduate

Saturday Morning Session B: Mathematics Undergraduates

Time	Title	Speaker	Duration	Type
9:00	Distinguishing number of graphs generated by the symmetry groups D_n	Meredith Cudmore-Keating	20m	Math Undergraduate
9:20	Reconfiguration Graphs and Dominating Sets	Amanda Porter	20m	Math Undergraduate
9:40	Red, Blue, Green Poset Games	Alexander Clow	20m	Math Undergraduate
10:00	Infinite Fibonacci Trees and other Binary Trees Generated by Linear Operations.	Jesse Preston	20m	Math Undergraduate
10:20	BREAK		10m	
10:30	Constructive Analysis in Agda	Zachary Murray	20m	Math Undergraduate
10:50	Exceptional Gegenbauer Polynomials and Confluent Darboux Transformations	James Munday	20m	Math Undergraduate
11:10	Geophysical Inversion For Flood Risk Management	Eli Vandenberg	20m	Math Undergraduate

Sunday Morning Session A: Mathematics Undergraduates, Contributed Talks

Time	Title	Speaker	Duration	Type
9:00	A Piecewise Linear Spline Maximum Entropy Method for Frobenius-Perron Operators of Multi-dimensional Transformations	Adam Smith	20m	Math Undergraduate
9:20	An Analysis of Population Persistence in Y-Shaped River Networks	Dylan Smith	20m	Math Undergraduate
9:40	BREAK		10m	
9:50	A Pursuit Evasion Game on the Plane	Mehdi Salimi	20m	Graduate and Contributed
10:10	Comparing the Surrounding and Containment Numbers of a Graph	Caleb Jones	20m	Graduate and Contributed

Sunday Morning Session B: Statistics Undergraduates, Graduate Students

Time	Title	Speaker	Duration	Type
9:00	Intensity-Duration-Frequency curves for dependent datasets	Anas Boukili Makhoukhi	20m	Stats Undergraduate
9:20	Multiple Observers Ranked Set Samples for Shrinkage Estimators	Andrew Pearce	20m	Stats Undergraduate
9:40	BREAK		10m	
9:50	A molecular vector embedding representation for enhanced toxicity prediction of Tox21	Mohammed Kassab	20m	Graduate and Contributed
10:10	Option price approximation by polynomial functions	Joy Liu	20m	Graduate and Contributed