Friday, 23 October 2026

Time	Event	Location
11:45 – 15:00	**Welcome Desk Opens**	Irving Hall 105
12:30 – 13:00	**CS Programming Competition briefing**	Irving Hall 107
13:00 – 18:00	**Computer Science Programming Competition**	Irving Hall 101
14:00 – 17:30	**Mathematics Competition**	Irving Hall 107
14:30 – 16:00	**Joint MSCS Division Meeting**	Irving Hall 104
16:00 – 17:30	**Computer Science Division Meeting**	Irving Hall 105
16:00 – 17:30	**Mathematics & Statistics Division Meeting**	Irving Hall 104
17:45 – 19:00	**Student Pizza Party**	Ganong Hall Foyer
19:00 – 19:15	**Official Welcome & Opening Remarks**	Ganong Hall Lecture Theatre
19:15 – 20:15	**Sedgwick Lecture (Computer Science): Daniel Lemire**	Ganong Hall Lecture Theatre
20:15 – 21:15	**Reception**	Ganong Hall Gallery

Saturday, 24 October 2026

Time	Event	Location
08:30 – 10:30	**Undergraduate Talks – Mathematics 1**	Irving Hall 105
08:30 – 08:50	Counting the Twist Isoclasses of the Irreducible Representations of M_5 *Jase Kochhar, Cape Breton University*	
08:50 – 09:10	An Introduction to Symmetry, Wallpaper Patterns, and Orbifolds *Madeleine Taylor, Dalhousie University*	
09:10 – 09:30	Symmetry Breaking of Wallpaper Patterns and its Relation to Orbifold Covering Maps *Evan Pelley, Dalhousie University*	
09:30 – 09:50	Relating Wallpaper Groups Using Orbifold Coverings *Ana Mastnak, Dalhousie University*	
08:30 – 10:30	**Undergraduate Talks – Statistics**	Ganong Hall 115
08:30 – 08:50	Modelling Opioid Dispensing patterns in Nova Scotia following the March 2020 CDSA Subsection56(1) Exemption *David Simonov, Acadia University*	
08:50 – 09:10	Partial Identification of Causal Effects using a financial analogy *Emmanuel Mindia, University of Prince Edward Island*	
09:10 – 09:30	Modelling Opioid Mortality during the COVID-19 Pandemic *Carter Clifton, St. Francis Xavier University*	
09:30 – 09:50	Optimizing the Location and Capacity of Primary Care Clinics in Prince Edward Island Using Capacitated p-Median Models *Rupinder, Singh, University of Prince Edward Island*	
09:50 – 10:10	How weather affects daily catch in LFA 27 *Taylor Rose, St. Francis Xavier University*	
08:30 – 10:30	**Undergraduate Talks – Computer Science 1**	Irving Hall 107
08:30 – 08:50	Field-Scale Vegetation Anomaly Detection Using Integrated Sentinel-2, Crop Histories, and Hydroclimatic Data *Muhammad Maaz, University of Prince Edward Island*	
08:50 – 09:10	Quadratic Kernel for Orchard Hybridization *Lathika Kathiresan, Dalhousie University*	
09:10 – 09:30	Hydrology-Driven Leaching Risk Assessment through Remote Sensing: A Satellite-Only Generalised Additive Model Framework for Fertiliser Application Advisory *Samridhi Girdhar, University of New Brunswick Saint John*	
09:30 – 09:50	Automated Quality Assessment of Wood Products Using Computer Vision *Chhavi Chhavi, Acadia University*	
09:50 – 10:10	From Geometry to Function: A Multi-Task LiDAR Benchmark Dataset for Semantic and Functional Parsing of Urban Facades *Abdiaziz Muse, Saint Mary's University*	

Time	Event	Location
10:10 – 10:30	Workflow-Integrated Record Matching for Historical Ship Identification *Mohamed Elsabah, University of Prince Edward Island*	
08:30 – 10:30	**Undergraduate Talks – Computer Science 2**	Ganong Hall 215
08:30 – 08:50	Agentic Detection of Security Antipatterns in Microservices Architectures *Muhammad Shazil Khan, University of New Brunswick*	
08:50 – 09:10	Evaluating Multi-Agent Reinforcement Learning for C&C Beaconing Detection in Simulated Enterprise Networks *Daniel Hashemi Tehrani, Acadia University*	
09:10 – 09:30	XGBoost for Network Intrusion Detection *Shekin David Raj, Acadia University*	
09:30 – 09:50	Heuristic Bandwidth Reduction Algorithms for Weighted Graphs *Alexander Matheson, Mount Allison University*	
09:50 – 10:10	Design and Optimization of Degree-Constrained Social Networks *Luis Varona, Mount Allison University*	
10:10 – 10:30	Girls STEM Up: Building Community and Visibility for Women in STEM Across Atlantic Canada *Tushita Govindaraj, University of New Brunswick, 2Girls STEM Up*	
08:30 – 10:30	**Graduate Talks – Mathematics**	Irving Hall 104
08:30 – 08:50	Travelling Clusters in Bacterial Aggregation *Timothy Power, Dalhousie University*	
08:50 – 09:10	Extension of the Aymptotic Iteration Method for Linear Differential Equations and Coupled First-Order Systems *Mingyue Gloria Guo, University of Prince Edward Island*	
09:10 – 09:30	Distinct Residues of the Gauss Factorial Modulo a Composite *Jonah Barrington, Dalhousie University*	
09:30 – 09:50	Algebraic L-theory via Poincare Infinity Categories *Tanner Altenkirk, Dalhousie University*	
09:50 – 10:10	Reflections on Rational Orthogonal Matrices *Rory Schepp, Dalhousie University*	
10:10 – 10:30	Surface Codes and Factor Graphs *Melanie Gauthier, Dalhousie University*	
10:30 – 11:00	**Refreshment Break**	Ganong Hall Gallery
11:00 – 12:00	**Blundon Lecture (Mathematics): Danielle Cox**	Ganong Hall Lecture Theatre
12:00 – 13:30	**Lunch Break**	Ganong Hall Gallery

13:30 – 15:30	**Undergraduate Talks – Mathematics 2**	Ganong Hall 115
13:30 – 13:50	Structure of Graph Polynomials *Damnada Abesiri Samarasekara, Acadia University*	
13:50 – 14:10	Cops and Robber Reliability Polynomial *Gage Richard, Mount Saint Vincent University*	
14:10 – 14:30	Graph Burning: When Selection Does Not Matter *Gabe Denney-Martell, Acadia University*	
14:30 – 14:50	Bounding the Average Order of Dominating Sets on Tournaments *Colin Roberts, Acadia University*	
14:50 – 15:10	Geometry in Random Graphs *Noah Wayne, Dalhousie University*	
15:10 – 15:30	Determining the Winner of Some GraphDistance Games is PSPACE-complete *William Lawlor, Mount Saint Vincent University*	
13:30 – 15:30	**Undergraduate Talks – Mathematics 3**	Irving Hall 105
13:30 – 13:50	Bounded Mean to Bounded Lower: Boundedness of the Maximal Operator from BMO to BLO *Luke MacKinnon, Cape Breton University*	
13:50 – 14:10	BMO and the Tale of Two Jumps *Jesse Milley, Cape Breton University*	
14:10 – 14:30	The Karlhede Bound in the case of Riemannian 3 Manifolds is Sharp *Asher Millett, Dalhousie University*	
14:30 – 14:50	Simultaneous Holotheticity and Bi-Hamiltonian Structures in Economic Growth Theory *Sarah Finkle, Dalhousie University*	
13:30 – 15:30	**Undergraduate Talks – Computer Science 3**	Irving Hall 107
13:30 – 13:50	Enhancing Alzheimer's Disease Detection Using MRI Preprocessing and Data Augmentation *Rosemary Etu-Efeotor, Acadia University*	
13:50 – 14:10	Seizure detection using SeizeIT2 dataset *Dhriti Dhriti, Acadia University*	
14:10 – 14:30	Evaluating and Improving Large Language Model Accuracy for Occupational Cancer Information Retrieval using the ILO Diagnostic and Exposure Criteria *Jeremy Qiao, University of New Brunswick Saint John*	
14:30 – 14:50	AI-Assisted Emergency Department Pre-Triage: A Multi-Agent Approach to Patient Prioritization and Wait-Time Management *Mithilesh Tumuganti, University of New Brunswick Saint John*	
14:50 – 15:10	Human Activity Recognition (HAR) using skeleton data *Omoroje Benjamin Alimele, Acadia University*	

13:30 – 15:30	**Undergraduate Talks – Computer Science 4**	Ganong Hall 215
13:30 – 13:50	Evaluating the Reliability of SHAP Explanation Stability Under Feature Correlation *Tasrian Ahmed, University of Prince Edward Island*	
13:50 – 14:10	Reflection of Majority Choices with Experts' Preferences in LLM Alignment *Cameron Steeves, University of New Brunswick Saint John*	
14:10 – 14:30	VPNN Rotations as Fine-Tuning Adapters: What Helps, What Doesn't, and Where to Spend the Budget *Habiebatou Sam, University of Prince Edward Island*	
14:30 – 14:50	Forecasting of Electric Vehicle Charging Behaviour: A Two-Stage Machine Learning Pipeline for Demand-Response Planning *Ditthi Chatterjee, University of Prince Edward Island and BluWave-ai*	
14:50 – 15:10	Aligning and Steering Molecular Representations Across Graph Neural Networks and Large Language Models *Tushita Govindaraj, University of New Brunswick*	
15:10 – 15:30	Demystifying the conventional choice of a key hyperparameter in the word2vec word embedding algorithm *Ufedo-Ojo Omale, University of Prince Edward Island*	
13:30 – 15:30	**Graduate Talks – Statistics and Mathematics**	Irving Hall 104
13:30 – 13:50	Causally guided predictive models can lead to better ecological forecasts. *Noah Coleman, University of New Brunswick Saint John*	
13:50 – 14:10	Investigating Methods of Fatty Acid Sub-selection which Maximize Separation of Prey Groups *Keely Mueller-Classen, University of New Brunswick Saint John*	
14:10 – 14:30	Unsupervised Classification of Extreme Temperature Indices in New Brunswick: Contribution of Dimensionality Reduction (PCA, t-SNE, UMAP) *Margot Diop, Université de Moncton*	
14:30 – 14:50	An Age Grouping Framework for Multi-Population Mortality Modeling *Cezar Campeanu, University of Prince Edward Island*	
14:50 – 15:10	Gaussian process emulation of spatio-temporal outputs of a 2D hydrodynamic model *Asma Oussar, Université de Moncton*	
15:10 – 15:30	Averaging and Transforming Repeated Measurements in Longitudinal Data: Does the Order of Operations Matter? *Patrick Talbot, University of New Brunswick Saint John*	
13:30 – 15:30	**Graduate Talks – Computer Science**	Ganong Hall Lecture Theatre
13:30 – 13:50	Formal Specification of Controlled Visual Dataflow Languages *Simon Gauvin, University of New Brunswick Saint John*	
13:50 – 14:10	An Inter retable, Clinician-in-the-Loop AI Framework for Mobility Assessment and Fall-Risk Reporting *Sarun Weerakul, University of New Brunswick*	

14:10 – 14:30	Persistent Initialization Susceptibility in a Hamiltonian Variational Eigensolver: Consequences for Reliable Benchmarking *Muhammad Umair A. B., University of New Brunswick*	
14:30 – 14:50	A Smote-Based Approach for Minority Attack Detection in Intrusion Detection Systems *Mohammod Haque, Acadia University*	
15:30 – 16:00	**Refreshment Break**	Ganong Hall Gallery
16:00 – 17:00	**Field Lecture (Statistics): Thierry Duchesne**	Ganong Hall Lecture Theatre
17:30 – 19:00	**Conference Banquet**	Crowne Plaza Hotel