CECM HQP trained 2016–2021

The following students used or are using the CECM computing computing facility and/or the CECM lab for their research. The label BSc means the student did an NSERC USRA and then completed MATH 499 Honours Research Project. Including those who are in progress, there are 2 PDFs, 25 graduate students, and 20 undergraduate students.

PhD —	Samuel Simon	Difference sets.
PhD —	Stefan Trandafir	Algebraic combinatorics.
PhD —	Reza Dastbasteh	Quantum error correction codes.
PhD —	Garrett Paluck	Hensel lifting algorithms.
PhD —	Ayoola Jinadu	Dixon resultants.
PhD —	Tian Chen	Polynomial factorization.
PhD —	Kevin Halaz	Latin squares and related objects.
MSc —	Andrew Cha	The endomorphism ring problem and supersingular isogeny graphs.
MSc —	Jingzhou Na	Perfect sequence covering arrays.
MSc —	Benjamin Chase	Non-linear functions in cryptography.
PDF —	Shuxing Li	Partial difference sets.
PDF —	Turku Celik	Computational algebraic geometry.
USRA —	Sohrab Ganjian	Multiprecision evaluation of Riemann theta functions in SageMath
USRA —	Aisosa Efemwonkieke	Generalized Fermat equations.
MSc 2021	Alexandria Vassallo	On the Volume of the Birkhoff Polytope.
MSc 2020	Eugene Filatov	Brauer-Severi varieties associated to twists of the Burkhardt quartic.
MSc 2020	Kimberly Connolly	FFT based algorithms for polynomials.
BSc 2020	Effie Gao	Certified computation of periods of algebraic Riemann surfaces
BSc 2020	Zhe Xu	Algebraic geometry.
BSc 2020	David Sun	The dihedral hidden subgroup problem.
MSc 2019	Daniel Lewis	An implementation of two-cover descent on plane quartic curves.
MSc 2019	Sasha Zotine	Explicitly representing vector bundles over elliptic curves.
MSc 2019	Garrett Paluck	Bivariate Hensel lifting.
BSc 2019	Khalil Shivji	Dixon resultants.
USRA 2019	Tabriz Potatia	Mutually orthogonal frequency squares.
USRA 2019	David Sun	Sparse interpolation of Dixon resultants.
USRA 2019	Hyukho Kwon	The learning with errors problem.
BTech 2019	Ritesh Goenka	MITACS internship, Chudnovsky-Ramanujan type formulae.
PhD 2018	Jiaxiong Hu	Computing polynomial GCDs using sparse interpolation.
MSc 2018	Charles Turo	Obstructions and Cup Product for Smooth Toric Varieties.
MSc 2018	Brandon Elford	Quantum information theory.
BSc 2018	Robyn Hearn	Counting irreducible quadratics over Zn.
BSc 2018	Wes Chorney	Finding negative curves in toric surfaces.
USRA 2018	Marius Ticu	The learning with errors problem.
USRA 2018	Ryan Mehregan	Hensel lifting algorithms.
PhD 2017	Baris Tuncer	Sparse polynomial factorization.
RAssoc 2017	Roman Pearce	Gröbner basis computation.
MSc 2017	Samuel Simon	Linking systems of difference sets.
MSc 2017	Stefan Trandafir	Quantum information theory.
MSc 2017	John Kluesner	Computing zero divisors of triangular sets.
MSc 2017	Marshall Law	Computing characteristic polynomials.
MSc 2017	Justine Gauthier	Fast multipoint evaluation on n arbitrary points.
MSc 2017	Hao Ze	Fast polynomial division.
USRA 2017	Gabriel Henderson	Sparse polynomial evaluation.
USRA 2017	Megan Monkman	Map bijections.
MSc 2016	Lucien Lapierre	Non-linear functions in cryptography.
BSc 2016	Jesse Elliott	Sparse polynomial interpolation.
BSc 2016	Charlotte Trainor	Classifying Fano divisorial polytopes.
USRA 2016	Alex Fan	Parallel GCD computation.
USRA 2016	Michael Bartram	Linear Subspaces of the 3x3 Permanent.