

Queen's University at Kingston
Department of Mathematics and Statistics

Past NSERC USRA Supervisors/Projects

Supervisor(s)	Project Title
SUMMER 2011	
Ernst Kani	The Representation Theory of the Group $SL_2(\mathbb{Z}/N\mathbb{Z})$ and Applications to Modular Forms
Serdar Yuksel	Decentralized and Stochastic Control Under Information Constraints
Wenyu Jiang	Evaluation of the Efficacy of Patient-Specific Prediction
David Wehlau & A V Geramita	Computing a Hilbert Function
Glen Takahara	Statistical Analysis of Financial Time Series Using Continuous-Time Models
Ram Murty	Problems in Modular Forms
SUMMER 2010	
I. Dimitrov, M. Roth & D. Wehlau	Combinatorics of the Littlewood-Richardson cone (<i>2 students</i>)
S. Yuksel	Value of Information in Decentralized Control
D. Lin	Statistical Properties of Orthogonal Designs for Computer Experiments
W. Jiang	Assessing the Accuracy of Prediction Models for Censored Survival Data
A. R. Mansouri	Variational Methods in Computer Vision
J. Mingo	Higher order Freeenes of Wigner Ensembles
SUMMER 2009	
I. Dimitrov & M. Roth	Littlewood-Richardson coefficients and Coxeter Groups (<i>2 students</i>)
A. Geramita & L. Roberts	Computations in Commutative Algebra and Algebraic Geometry
N. Kashyap	Combinatorial Problems in Coding Theory
J. Mingo	Free Probability and Random Matrices
R. Murty	Zeros of Ramanujan Polynomials
A. Pollard	Identification of large-scale turbulence structures in turbulent flows
SUMMER 2008	
E. Kani	Computing Galois Groups of Curve Covers
N. Kashyap	Construction of Graphical Models for Linear Codes
A.-R. Mansouri	Formation Control
J. Mingo & R. Speicher	Free Probability and Random Matrices (<i>2 students</i>)
R. Murty	Ramanujan Graphs
D. Thomson	Queen's Solar Radio Telescope
SUMMER 2007	
A. Lewis	Geometry of Affine Sub Bundles
J. Mingo & R. Speicher	The Planar Combinatorics of Random Matrices (<i>2 students</i>)
R. Murty	Modular Forms and Elliptic Curves (<i>2 students</i>)
A. Pollard	Eduction of Turbulent Structures using Lamb Vectors
D. Steinsaltz	Extreme Value Theory for Mortality Rates
D. Thomson	Queen's Solar Radio Telescope