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Professor	Department	Thesis Title	Thesis #
Aarabi, Paarham	ECE	Extended Touch User Interface	13-001
Aarabi, Paarham	ECE	Mobile Hearing Diagnostics	13-002
Aarabi, Parham	ECE	Melanoma Classification Using Neural Networks Trained with Heuristics	17-001
Aarabi, Parham	ECE	Optimizing the Algorithm of a U of T's Android-Mobile-Based Face Tracking System	17-002
Abdulhai, Baher	Transportation	Traffic bottleneck analysis and visualization of the Greater Toronto Area highway network	18-001
Acosta, Edgar	Chem Engg	Influence of pH on Interfacial Activity of Bitumen and De-asphalted Oil Emulsions	14-001
Adve, Raviraj	ECE	An Investigation of Transmit Adaptivity in Airborne Radar	16-001
Adve, Raviraj	ECE	Evaluating the Feasibility of Full-Duplex Wireless Communication on Real Wireless Networks	12-001
Adve, Raviraj	ECE	Joint Detection and Spectrum Sharing of Cognitive Radio-Based small cells for throughout Optimization in the Context of LTE Downlink Networks	14-002
Adve, Raviraj	ECE	Joint Estimation of Phase Noise, Carrier Frequency Offset and Channel using Variational Inference Methods in MIMO-OFDM	13-003
Adve, Raviraj	ECE	Linear Precoding for Multi-user MIMO-OFDM Systems with Channel Estimation and Limited Channel Feedback	12-002
Adve, Raviraj	ECE	MATLAB-Based Underwater Target Detection Simulator using Sythetic Aperture Sonar System	13-004
Adve, Raviraj	ECE	Motion Compensation of a MATLAB-simulated Synthetic Aperture Sonar System	14-003
Aitchison, Stewart	ECE	Realizing a dielectric grating based surface plasmon resonance sensor	15-001
Allard, Johane	Medicine	Use of Initial Insulin Resistance as an Eligibility Criteria for Bariatric Surgery	16-002
Alshaer H. & D.Bradley	Rehab & Medicine	Effects of Head and Body Rotation on Positional Sleep Apnea and Potential Applications in Novel Positional Therapy	14-009
Amon, C / Romero D.	MIE	Multi-Objective Optimization of Wind Farm layouts using a Genetic Algorithm Approach	12-003
Amon, Cristina	MIE	Optimal Deployment of Hydrogen Fuelling Stations in the Greater Toronto Area	16-003
Amon, Cristina	MIE	Optimal Wind Farm Layouts based on Modified Jensen Wake Modelling	12-004
Amon, Cristina	MIE	Optimization Model for Hydrogen Fuel Cell Vehicle Deployment in Ontario	16-004

Professor	Department	Thesis Title	Thesis #
Amon, Cristina	MIE	Predicting Phonon Thermal Transport in Single-Layer Molybdenum Disulfide	16-005
Amon, Cristina	MIE	Thermal Conductivity at Imperfect Interfaces using Molecular Dynamics Simulations	13-005
Amon, Cristina	MIE	Understanding the influence of Terrain Roughness and Turbine Geometry in the Far Wake Region of Wind Turbine Wakes	16-006
Amon, Cristina	MIE and IBBME	Characterization of Frictional and Mechanical Properties of Stent Grafts and their Delivery Systems	18-002
Amon, Cristina and Doyle, Matthew	MIE	Computational Fluid Dynamics Model of Novel Cannula for Failing Fontan Circulation	15-002
Amza, Cristiana	ECE	A Study of Software-Only HyTM with a Pessimistic Software Transactional Memory	15-003
Amza, Cristiana	ECE	Characterizing Live Migration Performance for Optimizing Server Fault Recovery	14-004
Amza, Cristiana	ECE	Distributing and coordinating parallel NPAIRS analysis computations using zookeeper service	15-004
Amza, Cristiana	ECE	Distribution, Parallelization, and Optimization of the NPAIRS Software Package	14-005
Amza, Cristiana	ECE	Efficient Time Constrained Migration of Virtual Machines using Cost Analysis	13-006
Amza, Cristiana	ECE	Improving Virtual Machine Placement in the Cloud	16-007
Amza, Cristiana	ECE	Modelling the time Constrained Migration Performance of Virtual Machines	14-006
Amza, Cristiana	ECE	NPAIRS Optimization via automated non-exhaustive search for best PCA dimensionality	15-005
Amza, Cristiana	ECE	Parallelized stochastic methods for optimization of principle component selection in the NPAIRS neuroimaging software package	15-006
Anderson, Adam	Physiology	Effect of Emotional Salience on Eye Movements	12-005
Anderson, Jason	Physiology	A GUI and RTL Viewer for the LegUp Project	12-006
Anderson, Jason	ECE	Floating Point Support for LegUp	12-007
Anderson, Jason	ECE	Hardware Visualizer for the LegUp High-Level Sythesis Tool	13-008
Anderson, Jason	ECE	High-Level Synthesis of Bitwidth Optimized Hardware with Software Fallback	13-009
Anderson, Jason	ECE	Improving the Speed of LegUp Generated Hardware by Transforming LLVM Control Flow Graphs	14-007

Professor	Department	Thesis Title	Thesis #
Anderson, Jason	ECE	Leveraging Software Profiling for Multi-Cycle Paths in High-Level Synthesis	14-008
Anderson, Jason	ECE	Performance Improvement of LegUp HLS by Splitting of Wide Multiplication into Partial Products	17-003
Anderson, Jason	ECE	Limited-Ones Representation in Artificial Neural Networks.	16-008
Andrysek, Jan	IBBME	Characterizing Piezoresistive Sensors at the Subject-Mobility Assistive Technology (MAT) Interface	13-010
Andrysek, Jan	IBBME	Development and Testing of a Stance Flexion Mechanism for the Automatic Stance Phase Lock (ASPL) Prosthetic Knee	16-009
Andrysek, Jan	IBBME	Mobility Assistive Technologies Biomechanics Monitoring Interface	13-011
Andrysek, Jan	IBBME	Studying the Performance of a Novel Stance-Phase Control Mechanism	16-010
Andrysek, Jan	IBBME	Design of a user interface on wearable sensor system for real-time gait monitoring and analysis	18-003
Ashgriz, Nasser	MIE	Energy Optimization of a Straight Fin Heatsink using CFD Simulations	14-010
Bailey / Orr	Physics	Design of A 1.3 GHz Superconducting Radio-Frequency sample test cavity	13-012
Bailey, David	Physics	Upper Limits on Energy Non-conservation	18-004
Balakrishnan, Ravin	Comp Sci	Porous Interfaces for Small Screen Multitasking using Finger Idnetification	16-011
Banning, Edward	Department of Anthropology	Automated Calculation of Sweep Width for Archaeological Survey Planning and Analysis	17-004
Bardakjian, Berj	IBBME	Synaptic Plasticity in Computer Models of Neuronal Networks	13-013
Bardakjian, Berj L.	IBBME	Local Field Potential in Computational Models of Neuronal Networks	17-005
Barfoot, Tim	UTIAS	Estimating Inertial Measurement Unit Bias using a Scanning Lidar and Renyi Quadratic Entropy	13-014
Barfoot, Tim	UTIAS	Implementation of a Power Tether and Tag-Based Visual Localization System for UAV`s	15-007
Barfoot, Tim	UTIAS	Lidar-based Motion Estimation	13-015
Barfoot, Tim	UTIAS	Optimizing Camera Perspective in Stereo Visual Odometry	13-016
Barfoot, Tim	UTIAS	Simultatneous Localization and Mapping using the extended Kalman Filter	12-009

Professor	Department	Thesis Title	Thesis #
Battison, Kyle	IBBME	Seeding of smooth Muscle Cells on Degradable Polar Hydrophobic Ionic	12-010
Bazylak, Aimy	MIE	Analysis of Water Transport Mechanisms in Polymer Electrolyte Membrane Fuel Cell Micro-Porous Layers using Pore Network Modelling	17-006
Bazylak, Aimy	MIE	Design of Loschmidt Cell for Experimental Measurements of the Diffusivity of Compressed Gas Diffusion Layers in PEM Fuel Cells	13-017
Bazylak, Aimy	MIE	The Design of an Apparatus for the Ex Situ Measurement of Thin Layer Material in Polymer Electrolyte Fuel Cells	17-007
Bazylak, Aimy	MIE	The Effect of Phosphoric Acid Leaching on the Diffusivity of Oxygen in a High Temperature Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layer	17-008
Bazylak, Aimy	MIE	Investigating the Effects of Viscosity on the Catalyst Layer Ink on Inkjet Printed Polymer Electrolyte Membrane Fuel Cells	18-005
Bazylak, Aimy	MIE	Visualizing and quantifying the electrode morphology within a lithium ion battery	18-006
Beck, Christopher	MIE	Data Centre Scheduling problem Using the Mixed Integer Programming Inspired from the Unit Commitment Problem	14-011
Beck, Christopher		Finding Optimal Solutions for Cost Aware Scheduling	15-008
Beck, Christopher	MIE	Image Processing of Oxygenation Changes during Epilepsy in Animal Models	13-018
Behdinan, Kamran	MIE	Morphing Mechanisms, Morphing Skins and An Investigation of a Morphin Wingtip Implementation on the Airbus A320's Range	13-019
Behdinan, Kamran	MIE	Rotor Dynamic Analysis and Unbalance Response fo Laval Rotor Using ANSYS APDL	16-012
Bender, Tim	Chem Engg	Design of an apparatus for organic vapour phase deposition	13-020
Benhabib, Beno	MIE	Design of a Controller for Robotic Wilderness Search and Rescue	17-009
Benhabib, Beno	MIE	A Study of the Limitations of Millirobots with Respect to Simultaneous Localization and Mapping	18-007
Benhabib, Beno	MIE	Improving the Motion Controller on the Millirobots	18-008
Bentz, Evan	Civil Engg	Assessing the Feasibility of a Downtown Relief Line beneath Queen Street by Examing the Risks posed to old City Hall by Construction-induced ground movements	14-012
Bentz, Evan	Civil Engg	Discrete element analysis of the Pont De Les Ferreres	14-013
Bentz, Evan	Civil Engg	Effects of Slabs on Reinforced Concrete Coupling Beams	17-010
Bentz, Evan	Civil Engg	Error Analysis of Bridge Model Updating with Distributed Sensor Data	17-011

Professor	Department	Thesis Title	Thesis #
Bentz, Evan	Civil Engg	Inadequate Shear Reinforcement Anchorage in Guralnick Concrete T-Beam Series and Influence in ACI Committee 326 Report	15-009
Bentz, Evan	Civil Engg	Investigating the Static Response of Suspension Bridge with Non-Uniform Dead Load Through a Structural Analysis of Yuntiandu Glass Bridge	17-012
Bentz, Evan	Civil Engg	Modelling Coupling Beams and Coupled Shear Walls	16-013
Bentz, Evan	Civil Engg	Non-Linear Analysis of a Reinforced Concrete High Rise Tower	14-014
Bentz, Evan	Civil Engg	Numerical Analysis of the Hoover Dam Bypass Bridge using Augustus Software	13-023
Bentz, Evan	Civil Engg	Structural Analysis of the Collapse of the North Twin Tower	13-024
Bentz, Evan	Civil Engg	Structural Analysis of the Failure of Nipigon River Bridge	17-013
Bentz, Evan	Civil Engg	The Optimization of Composite Beam Cross Sections	12-011
Bentz, Evan	Civil Engineering	Finite Element Analysis and Design of Vertically Curved Roof Structure Subject to Ontario Building Code Limit States Provisions	18-148
Betz, V. & Khisti, A.	ECE / Comm.	Investigating the Hardware Cost of Physical Layer Security in Multiple Antenna Wireless Communication Systems	14-015
Betz, Vaughn	Civil Engg	Improving Insight into FPGA Architecture Development	17-014
Betz, Vaughn	ECE	Many Heads Make Great Work: Parallelizing Decision-Based Optimization Algorithms	14-016
Betz, Vaughn	ECE	Tetrahedral Mesh Generation for High-Performancce Monte Carlo Simulation of Light through Turbid Media with Complex Geometry	15-010
Biddiss, Elaine	IBBME	Implementation of Depth Data Enabled Algorithm to Support in-Home Mixed Reality Rehabilitation Therapy System with Microsoft Kinect for Children with Cerebral Palsy	15-011
Bilton, Amy	MIE	Development of a Systematic Design Process for Energy System Selection for Remote Communities	16-014
Bilton, Amy	MIE	Modelling the Effects of Membrane Degradation in Photovoltaic Reverse Osmosis Systems	17-015
Bilton, Amy	MIE	Optimizing the Velocity Profile of a Solar Car using Multiple Heuristic Optimization Techniques under Different Weather Scenarios	17-016
Bilton, Amy	MIE	Overall Optimal Control of Photovoltaic Reverse Osmosis Desalination System	16-015
Bilton, Amy	MIE	System Modeling and Control Design of the Electrochemical Water Disinfecting "Dive" System	17-017
Bilton, Amy	MIE	Control System Design for Pico-Turbine Energy Harvesters	18-009

Professor	Department	Thesis Title	Thesis #
Bonner, Anthony	Comp Sci	Neural Network Prediction of Peptide Fragmentation Mass Spectra	17-018
Broucke, Mireille	ECE	Control for complex specifications Hybrid controller design for crane system	13-025
Broucke, Mireille	ECE	Control with Complex Specifications: Flip Maneuver of a Quadrotor Helicopter	15-014
Broucke, Mireille	ECE	Hybrid Controll for the Lead Car of a Platoon on a Highway	13-026
Broucke, Mireille	ECE	Hybrid Controller Design for a Crane Problem	12-013
Broucke, Mireille	ECE	Learning Internal Models for Motor Control	16-016
Broucke, Mireille	ECE	Review of Control for Complex Specifications with Application of the HVAC System	12-014
Broucke, Mireille	ECE	Simplex-Based Controller Design for a Crane Problem	13-027
Broucke, Mireille	ECE	Modelling the Cerebellum's Role in Motor Control with Control Architecture Similar to the Smith Predictor	18-010
Broucke, Mireille	ECE	Toward a control model of motor adaptation: Model vestibulo-ocular reflex (VOR) with Kalman filter and linear quadratic optimal control	18-011
Broucke, Mireille	ECE	Modeling three stages of long-term visuomotor learning with recurrent adaptive neural network control	18-012
Broucke, Mireille	ECE	The Kalman Filter in motor control	18-013
Broucke, Mireille	ECE	Optimal control techniques applied to a biologically realistic model of the human arm	18-014
Broucke, Mirielle	ECE	Improved Windsurfing Method-A Factorization Approach to learning Control	16-017
Brown, Stephen	ECE	A Non-Intrusive Debugger for the ARM Cortex-MO Soft Core Processor	14-017
Brown, Stephen	ECE	Estimating the Benefit of Hardware Acceleration of Software Functions in Hybrid Systems	12-015
Brown, Stephen	ECE	Investigation into Existing Decompilers for Usage with High Level Synthesis	16-018
Brudno, Michael	Comp Sci	A novel computer aided system to determine lung Nodules Malignancy	15-015
Brudno, Michael	Computer Science	Developing Machine Learning Models for Applications in Epigenetics	18-015
Brudno, Michael	Computer Science	A Real-Time Speech Processing System for Medical Conversations	18-016

Professor	Department	Thesis Title	Thesis #
Butscher, Adrian	Computational Science Research,	A model of bone development as a topology optimization problem	18-017
Cafazzo, Joseph	IBBME	A Mobile Phone Platform for Monitoring Stress through ECG-derived Heart Rate Variability	12-016
Cafazzo, Joseph	IBBME	Applying Ecological Interface Design to Improve the Radiotherapy Monitoring Interface	12-017
Cafazzo, Joseph	IBBME	Design of an iOS Application to calculate Bolus Insulin for Teens with Type 1 Diabetes	16-019
Carlen, Peter	IBBME	Image Processing of Oxygenation Changes during Epilepsy in Animal Models	13-028
Carusone, Anthony Chan	ECE	A Single Tap Decision Feedback Equalizer: Characterization and Behavioural Modeling	17-019
Carusone, Tony	ECE	A Simulation Platform for 60GHz Wireless Transceiver	13-029
Carusone, Tony	ECE	CAD Tool Design for Shunt Peaking Techniques	14-018
Carusone, Tony Chan	ECE	Applications of Errors-and-Erasures Reed Solomon Error Correction Codes	17-020
Cen, Ling	Rotman	Impact on Adopting Enterprise Resource Planning (ERP) System on the Company's Stock Performances and Operation Performances	12-018
Chan Carusone Tony	ECE	Automated Test System for Improvement in Speed and Accuracy of Characterizing Communication Integrated Circuits	12-019
Chan Carusone Tony	ECE	The Automation of Parameter Sweeping in HSPICE	12-020
Chan Carusone, Tony	ECE	A Study of the Trade-off between Speed and Accuracy in Discrete Simulation of Flicker (1/f) Noise	15-016
Chan Carusone, Tony	ECE	Power supply noise induced jitter on a high-spped 45 nm CMOS double-tail latch ADC comparator	18-020
Chan, Timothy	MIE	Budget Constraint Optimal Resource Allocation in Tennis	13-030
Chan, Timothy	MIE	Engineering Wins: Optimal End Game Strategy in the NBA	18-018
Chan, Warren	IBBME	Gold Nanoparticle MNAzyme Biosensor Plasmonic DNAzyme Strategy for Point-of-Care Genetic Detection of Infectious Pathogans	14-019
Chan, Warren	IBBME	Characterisation of PEGylated Nanoparticle Surfaces Using a High Sensitive Colorimetric Assay	12-021
Chan, Warren	IBBME	Long-Term Preclinical Studies of a Nanoparticle-Based Treatment for Type-1 Diabetes	14-020
Chan, Warren	IBBME	Understanding the interactions between sub-10 nm gold nanoparticles and human serum proteins	18-019

Professor	Department	Thesis Title	Thesis #
Chandra, Sanjeev	MIE	Interaction of Particles on a Thin Liquid Film	17-021
Chau, Tom	IBBME	Correlating Music Characteristics with Human Emotional Ratings and Prefrontal Cortex Activities	12-022
Chau, Tom	IBBME	Development and Case Study of a Fabric-Based Communication wristband for Children with Severe Communication Difficulties	17-022
Chau, Tom	IBBME	Development and Evaluation of a Smile Switch as an Access Technology for Individuals with Severe and Multiple Disabilities	12-023
Chen, Jean	Medical Biophysics	Echo-Time Optimization in Spin Echo EPI for White Matter	15-017
Chen, Jean	Med Biophysics	Multimodal Imaging of Resting-State Brain Function using Magnetoencephalography and Functional Magnetic Resonance Imaging	13-031
Cheng, Hai-Ling Margaret	IBBME	Improvement of Cardiac Magnetic Resonance Image Acquisition Through Selective K-Space Filtering	18-021
Cheng, Y / Metcalfe M.	Chem Engg	Energy and Emission Projections for Sustainable Development of Sanitation Systems in Rural Bangladesh	12-024
Cheng, Yu-Ling	Chem Engg	Conceptual Design and Economic Modelling of Oxygen Storage System towards Improving Oxygen Treament availability in The Gambia,	12-025
Chignell, Mark	MIE	Adventures in CrowdSourcing	13-032
Chignell, Mark	MIE	Analysis of Inhibition Task Performance	14-021
Chignell, Mark	MIE	Analysis of the Impact of Cognitive Distraction and Environmental Factors on Near-Crash/Crash Risk	17-023
Chignell, Mark	MIE	Centrally-Based Indentification of Representative Actors in Social Networks	13-033
Chignell, Mark	MIE	Examination of Correlation Structures for Non-Confidential Clinical Prediction Using Summarized Data	17-024
Chignell, Mark	MIE	Gait Device Data Interpolation	12-026
Chignell, Mark	MIE	Low cost screening and monitoring sleep apnea using smartphone-based noctural pulse oximetry	13-034
Chignell, Mark	MIE	Recommending Social Events from Cold-Start users Demographic Information	13-035
Chignell, Mark	MIE	Memory Box; Dementia Ward Interactive Technology	16-020
Chow, Chung Wai	Chem Engg	Investigation of Oxidative Potential of PM 2.5	14-022
Chow, James	Radiation Oncology	Monte Carlo Simulation on Gold Nanoparticle DNA Damage in Radtiotherapy	16-021

Professor	Department	Thesis Title	Thesis #
Chow, Paul	ECE	Accelerating the Virtual Brain Model Computations using High-Level Synthesis Optimizations in FPGAs	14-023
Chow, Paul	ECE	Convolutional Neural Networks on an FPGA using Fast Fourier Transform	16-022
Chow, Paul	ECE	Floating -point Performace trends of FPGAs vs. CPUs	12-027
Chow, Paul	ECE	Generation of TMD-MPI Hardware Ranks using High Level Synthesis	17-025
Chow, Paul	ECE	Incorporating Virtual Digital I/O Connections between FPGA Devices and CPUs within an Ethernet Connected Network	17-026
Chow, Paul	ECE	Partitioned Global Address Space Model using GAScores on a ZedBoard	14-024
Chow, Paul	ECE	Performance and Resource Utilization of NoC Topologies in FPGAs	12-028
Chow, Paul	ECE	Power efficient FPGA-Based Design of the square kilometer array correlator	15-018
Chow, Paul	ECE	Study of the Pathfinder Radio Telescope Correlator Implementation ona FPGA	14-025
Chow, Paul	ECE	Updating Remote Direct Memory Access Hardware on an FPGA to Support a Heterogeneous Runtime Framework	17-027
Christara, Christina	Comp Sci	Efficient and accurate numerical PDE methods for pricing financial derivatives	15-019
Christopoulos, C	Civil Engg	Experimental and Numerical Study of a Small-Scale Controlled Rocking Frame	13-037
Christopoulos, C	Civil Engg	Experimental and Numerical Study of a Small-Scale Self-Centering Energy Dissipative Braced Frame Model	12-029
Christopoulos, C	Civil Engg	Visco-Elastic Dampers in Shear Wall Applications	12-030
Christopoulos, Constantin	Civil Engineering	Experimental and Numerical Study of a Small-Scale Combined Rocking and Shear-Limiting Mechanism	18-022
Chua, Tom	IBBME	Novel communicaton technology based on video-analysis of orofacial movements for keyword spotting	18-023
Cobbold, R./Adve R	ECE / IBBME	Detection of Hypoechoic Targets in Ultrasound Based on the Clean Algorithm	13-038
Courtney, Brian	Sunnybrook Hospital	A Novel Imaging Technology for Chronic Total Occlusion	16-023
Cowen, Deborah	Geography	From Forecasting to Visioning: Alternative Transportation Planning Methods for Autonomous Vehicles	18-024
Coyle, Thomas	MSE	Solution Percursor Plasma Spray Fabrication of Molybdenum Oxide for Supercapacitor Applications	13-039

Professor	Department	Thesis Title	Thesis #
Damaren C. J.	UTIAS	A Frequency & Modal Analysis of the BALLOON-BORNE IMAGING TESTBED	13-040
Damaren C. J.	UTIAS	Spacecraft Formation Control using the Geomagnetic Lorentz Force	13-041
Damaren C. J.	UTIAS	Stability of Solar Sail Equilibria in the Restricted threee body problem	13-042
Damaren C. J.	UTIAS	Trajectory Analysis for Solar Sails in the Restricted Three-body Problem	13-043
Damaren, C J	UTIAS	Dynamics of Charged Solar Sails in the Magnetosphere of the Earth	17-030
Damaren, C J	UTIAS	Optimizing the Number of Impulses Required in the Hybrid-Optimal Control of a Small Satellite	17-031
Damaren, C. J.	UTIAS	Control of Lorentz-Augmented Satellite Formations using relative Cartesian States	15-020
Damaren, C. J.	UTIAS	Control System Design for the Stability of a Non-Ideal Solar Sail at the L1 Lagrange Point in the Earth-Sun System	15-021
Damaren, Chris	UTAIS	Analysis of Lunar Gravity Assist Maneuvers in Transgers from the Earth to Mars	16-024
Damaren, Chris	UTAIS	Thruster Firing Time Optimization for Hybrid Control of Spacecraft Formation Flight	16-025
Damaren, Chris	UTAIS	Optimal Hybrid Continuous/Impulsive Satellite Attitude Control	16-026
Damaren, Christopher	UTIAS	A Cartesian relative motion approach to spacecraft formation flight using optimized Lorentz force and impulsive thrust with varying thrust application times	18-025
Damaren, Christopher	UTIAS	Gravity-assist impulse model for trajectory optimization	18-026
Damaren, Christopher	UTIAS	Gain quantification for the magnetic attitude control equation	18-027
Davis, James	UTIAS	Investigation of the Dependence of the Deposition Temperature on Carbon Films Oxidation Rate	17-032
Davis, James W.	UTIAS	A study of the oxidation of DIII-D Codeposits by Mass Loss and Laser Desorption	15-022
Dawson, Francis	ECE	Design of a Wireless Thermoelectrically Powered Temperature Sensor for Industrial Power Distribution Systems	17-033
D'eleutario, Gabriele	UTIAS	Bidirectional coupled neuron model based on Drapaca's and Schmid's extension of the Hodgkin-Huxley neuron	18-028
D'Eleuterio / Seco	UTIAS / Math	Modeling of the Leading-Edge Vortex in Dragonfly Flight	13-044
D'Eleuterio, G	UTIAS	Sensor Study for a Robotic Dragonfly	13-045

Professor	Department	Thesis Title	Thesis #
D'Eleuterio, G.	UTIAS	Audio Signal Analysis	12-031
D'Eleuterio, G.	UTIAS	Design of the Power Subsystem for a Micro-robotic Dragonfly	12-032
D'Eleuterio, Gabe	UTIAS	Empirical Determination of Lift and Drag Coefficients of a Micro-robotic Dragonfly's Wings	14-026
D'Eleuterio, Gabe	UTIAS	Measurement of the Two Dimentional Force on Micro-Robotic Dragonfly	13-046
D'Eleuterio, Gabriele	UTAIS	Effects of Wing Geometry on Dragonfly Inspired Flapping-wing Mirco Aerial Vehicle	16-027
D'Eleuterio, Gabriele	UTIAS	Evolving single channel communication between simulated agents	18-029
D'Eleuterio, Gabriele M T	UTIAS	Design of Robotic Dragonfly Platform for Experiments on Dragonfly Forewing-Hindwing Interactions	17-034
D'Eleuterio, Gabriele M T	UTIAS	Evolving AND Gate Behaviour in Cellular Automata	17-035
D'Eleuterio, Gabriele M T	UTIAS	Robotics Localization with Machine Learning Method	17-036
Dickenson, Sven	Comp Sci	Efficient fine-grained recognition and pose estimation	15-023
Dickinson, Sven	Comp Sci	Optimized Viewsphere Partitioning for Efficient 3-D Object Recognition	13-047
Diller, Eric	MIE	Electro-Magnetic Microrobot Actuation using Intertwined Solenoids	15-024
Diller, Eric	MIE	Microrobot Locomotion Control using Permanent Magnets	15-025
Diller, Eric	MIE	Design of Microrobotic System and Path Tracking Controller for Autonomous Cargo Manipulation	18-030
Doesburg, Sam	Medical Imaging	Intracranial EEG graph-theoretical network analysis for localization of epileptogenic cortex in medically-refractory pediatric epilepsy	15-026
Donmez, Birsen		Risk Assessment of Drivers Based on Driving Style: A Naturalistic Study	14-027
Draper, Stark	Communications (ECE)	Image denoising by method of Residual Learning with Multi-Scale Convolutional Neural Networks	18-031
Duncan, Katherine	Neuroscience	Using High Powered Computing with MRI datasets	16-028
Duvenaud, David	Computer Science	Backpropagation through the void: Optimizing control vatiates for black-box gradient estimation	18-032
Ekmekci, Alis	UTIAS	Analysis of Vortex Structure in Low Aspect Ratio Planform Designs in Low Reynolds Number Flow Regime	14-028

Professor	Department	Thesis Title	Thesis #
El-Diraby, Tames	Civil Engg	Design of Social Applications as a Tool for Domestic Energy Conservation	12-033
Eleftheriades, George	ECE	Design of Series-Fed Microstrip Antenna Array for Satellite Tracking	16-029
Eleftheriades, George	ECE	Designing Superoscilliatory Functions for Sub-Diffraction Imaging Systems	18-033
Emami, M. Reza	UTIAS	Comparision of Control Strategies for Free-Based Robotic Manipulators	13-048
Emami, M. Reza	UTIAS	Comparison Study of the Performance of Modern Control Methods for Swarm Robotic Foraging Applications	13-049
Emami, M. Reza	UTIAS	Developing a Robot Platform for Implementing and Testing Social Learning Algorithms	14-029
Emami, M. Reza	UTIAS	Feasibility Study for an Asteroid Resource Extraction Mission	13-050
Emami, M. Reza	UTIAS	Performance study and analysis of a reconfigurable rover platform, design and development of a reconfigurable terrain mechanism	13-051
Engels, Steve	Comp Sci	3D Terrain Generation with Constraints	12-034
Engels, Steve	Comp Sci	Adaptable Recommender System	13-052
Engels, Steve	Comp Sci	An Artificial Intelligence Algorithm for Augmented Reality Application on Mobile Platform	14-030
Engels, Steve	Comp Sci	Automatic Music Generation	15-027
Engels, Steve	Comp Sci	Evolutionary Algorithms in Automated QA Testing	13-053
Engels, Steve	Comp Sci	Fixing a Test Framework for the MarkUs Project	12-035
Engels, Steve	Comp Sci	Game Design for an upper limb stroke rehabilitation robot	15-028
Engels, Steve	Comp Sci	Gamifying Speech Therapy for Stroke Victims	17-037
Engels, Steve	Comp Sci	Modifying Automatic Music Generation Software to Serve as a Suggestion Feature in Digital Audio Workstations for Composers	17-038
Engels, Steve	Comp Sci	Using AI Techniques to Generate 3D Terrain Models from Existing Terrain Data	13-054
Engels, Steve	Comp Sci	Utilizing Evolutionary Algorithms for Automated QA Testing in Video Game Development	15-029
Engels, Steve	Computer Science	Examining the impact of narrative context and goal definition on educational game efficiency through the design of an introductory programming game	18-034

Professor	Department	Thesis Title	Thesis #
Engels, Steve	Computer Science	Automated Music Generation with Machine Learning	18-035
Enright Jergen, Natalie	ECE	Performance Optimization of Software Transactional Memory on a many-core system	12-036
Enright Jerger	ECE	A Novel 2.5D Silicon Die-Stacking Architecture	13-055
Enright Jerger, N.	ECE	Hybrid Trend Detection: a Novel Technique in Load Value Approximation	15-030
Enright Jerger, N.	ECE	Network Chip for Silicon Interposer	15-031
Evans, G. & Jeong C.	Chem Engg	Refinement of Single-Particle Ambient Aerosol Mass Spectrometry Data Analysis Techniques	14-031
Evans, Greg	Chem Engg	Relation between Air Quality and Vehicle Number	16-030
Evans, Greg	Chem Engg	Spatial and Temporal Variation of Ultrafine Particle size distribution across Toronto	13-056
Evans, Greg	Chem Engg	Use of Machine Learning Algorithm to Profile the Contribution of Air Pollutant Emissions from Different Sources	16-031
Evans, Greg	Chem Engg	Web Interface Design for the Southern Ontario Centre for Atmospheric Aerosol Research (SOCAAR) Air Quality Sensor Network	15-032
Evans, Greg	Chem Eng	Investigating how organizational culture influences the goals and challenges of co-curricular engineering design teams	18-036
Fernandez-Gonzalez	IBBME	Development of a Low-Cost, Stage-Top Incubator for use in Confocal Microscopy	15-033
Fernandez-Gonzalez	IBBME	Quantifying the Orientation of Cell Division during Axis Elongation	14-032
Fernandez-Gonzalez	IBBME	Superresolution Analysis of Actomyosin Cable Architecture	13-057
Fernandez-Gonzalez, Rodrigo	IBBME	Automated Tracking and Quantitative Analysis of Protein Dynamics During Wound Closure in Syncytial Drosophila melanogaster Embryos	17-039
Fernandez-Gonzalez, Rodrigo	IBBME	Developing an Automated Tool to Investigate the Molecular Dynamics Underlying Axis Elongation in Drosophila	17-040
Fidler, Sanja	Comp Sci	Classification of 3D Objects Using Volumetric Data	17-041
Fidler, Sanja	Comp Sci	Façade Matching Using Google StreetView	16-032
Fidler, Sanja	Comp Sci	Semantic Understanding of Table Tennis Video Clips	16-033
Fidler, Sanja	Computer Science	Indoor Navigation with Deep Reinforcement Learning	18-037

Professor	Department	Thesis Title	Thesis #
Fidler, Sanja	Computer Science	Spatial transformation autoencoders for 2D pose estimation	18-038
Fidler, Sanja	Computer Science	Deep Neural Networks for Detecting Small Objects in Images	18-039
Fidler, Sanja	Computer Science	Leveraging Joint Branches for Detecting Disposed Objects on the Streets Using Neural Networks	18-040
Foster, Jason	EngSci	A Comparative Study of the Viability of an Open Source Toolchain with the Industry Toolchain for the Design and Development of Small Scale Robotics	17-042
Foster, Jason	EngSci	A Faster Way for Teams to Reach Consensus	15-034
Foster, Jason	EngSci	Assessing Methods of Transfer and Preservation of Knowledge in Software Engineering	15-035
Foster, Jason	EngSci	Design of a Mobile Platform for Acquisition, Synthesis and Analysis of Programs for Exercise Instruction	12-037
Foster, Jason	EngSci	Evaluating Innovation in Undergraduate Cornerstone Design Projects Exploring the Validity of Current Assessment Metrics to Identify Innovators and Innovative Team Environments	14-033
Foster, Jason	EngSci	Exploring Non-Commercial 3D Printing Options for Academic Purposes	12-038
Foster, Jason	Eng Sci	Incorporating Open Source Alternatives into Undergraduate Engineering Teaching	16-034
Foster, Jason	EngSci	Mobile Platform for Acquisition, Synthesis and Analysis of Programs for Exercise Instruction	12-039
Foster, Jason	EngSci	What Influences the Design Practices of Experienced Hardware Engineers	15-036
Foster, Jason	Engineering Science	Computation in Teaching the Foundational Science	18-041
Foster, Jason	Engineering Science	Smart electric sailboat design	18-042
Fox, Mark	MIE	A Study on the Benefits of Distributed Data Collection in an Industrial Environment	13-058
Fox, Mark	MIE	Service level commitment analysis based on 311 ontology	18-043
Fox, Mark	MIE	Transformation and annotation of crowd-sourced open data into the global urban data repository	18-044
Frances, Daniel	MIE	Bayesian Inference Using Gibbs Sampling in Applications and Curricula of Decision Analysis	13-059
Frances, Daniel M	MIE	Forecasting Bitcoin Returns with Hidden Markov Models	17-043
Francis, Bruce	ECE	Control Theory and Implementation of an Autonomous Two-Robot Convoy	12-040

Professor	Department	Thesis Title	Thesis #
French, Leon	Psychiatry	Magnetic Resonance Imagine from the Transcriptomic Perspective	17-044
Gauvreau, Paul	Civil Engg	Improving Economy of short span bridge construction using UHPFRC Precast Concrete Girders	15-037
Gauvreau, Paul	Civil Engg	Investigation of Span-to-Depth Ratios for Post-tensioned Concrete Rigid-Frame Structures	14-034
Gauvreau, Paul	Civil Engg	Refining of Professor Christian Menn's Simplified Method on Curved Girder Bridges	14-035
Gauvreau, Paul	Civil Engg.	Replacement of Laviolette Bridge	13-060
Gauvreau, Paul	Civil Engg	Span Limits for Single Span Post-Tensioned Concrete Rigid Frame Overpass Bridges	12-041
Gauvreau, Paul	Civil Engg.	The Evolutioin of the Canadian Highway Bridge Design Code	13-061
Gauvreau, Paul	Civil Engg	The Improvement of FlexiArch Bridge Designs	14-036
Gauvreau, Paul	Civil Engineering	Redesign of the Crown Hill Overpass	18-045
Genov, Roman	ECE	Design and Simulation of a Pinned Photodiode Structure for Time-of-Flight Applications	16-035
Genov, Roman	MIE	Design of an Optimal & Closed-Loop Neuromodulation System for Treatment of Epilepsy	14-037
Genov, Roman	ECE	High Resolution Neuro-Monitoring and Signal Processing for Treatment of Neurological Disorders	15-038
Genov, Roman	ECE	High Voltage Neutral Stimulator Chip Design	15-039
Genov, Roman	ECE	Inductively-Linked Weakly Coupled Resonant Systems (IL-WCRS)	12-042
Genov, Roman	ECE	Multi-Channel Neutral Recording and Seizure Monitoring	15-040
Genov, Roman	ECE	Verilog Design and Modification of an Exisiting Microcontroller for Transcranial Stimulation	16-036
Genov, Roman	ECE	Wirelessly-powered implantable chip for brain chemistry monitoring	18-046
Gilbert, Penney	IBBME	Investigation of the Interplay between Signaling Cascades in Myogenesis	15-041
Gilbert, Penney	IBBME	Notch Ligand "Jagged 1" Mode of Presentation to Muscle Progenitor Cells Controls their Differentiation and Proliferation	16-037
Ginsberg G & Whyne C	Surgery	Design of an Installation Tool for a Novel Spinal Implant	14-038

Professor	Department	Thesis Title	Thesis #
Ginsberg, Howard / Zarrine-Afsar, Arash	Surgery	Towards a Rapid Tissue Identification System: The Development and Evaluation of a Picosecond Infrared Laser Plume Collection System	16-038
Goel, Ashvin	ECE	Measuring the Performance Overhead of Transactions in Redis, a NoSQL Database	13-062
Goel, Ashvin	ECE	The Application of the Duet Framework to Cloud File Synchronization Services	16-039
Goel, Ashvin	ECE	Differential invariants of Redis' ziplist data structure	18-047
Goel, Ashvin	ECE	Crash-consistency offline file system tools using journaling	18-048
Goh, Cynthia	Chemistry Dept.	Development of Speech Training for People with Hearing Defectives using Vision Feedback System	12-043
Goldenburg, Anna	Computer Science	Machine Learning to Diagnose Compensated Cirrhosis	18-049
Golubov, Andrey	Rotman	Mergers and Acquisitions in Technology-Related Industries	18-050
Grant, Peter	UTIAS	Buffet Simulation of the UTIAS Flight Research simulator	12-044
Grant, Peter	UTIAS	Development of a Small Business Jet Model for the UTIAS Research Simulator	13-063
Grant, Peter	UTIAS	Development of Autopilot Navigation and Flight Control Laws for UTIAS Flight Research Simulator	13-064
Grant, Peter	UTIAS	Ground Handling Improvements to the Flight Model and Simulator Motion of the UTIAS Flight Research Simulator	13-065
Grant, Peter	UTIAS	Improved Aircraft Departure Prediction Based on Equations of Motion	14-039
Grant, Peter	UTAIS	Modelling of Turboprop Aircraft in Port-Stall Using Panel Method	16-040
Grant, Peter	UTIAS	Post-Stall Aerodynamic Modelling of Commercial Aircraft using Flight Test Data	15-042
Grant, Peter	UTIAS	Quantitative Performance Analysis of Soft Twist Mode Suspension Systems for Formula SAE Racecars	15-043
Grant, Peter	UTIAS	Simulating Spatial Disorientation in Flight using Perception Modeling	17-045
Grant, Peter	UTAIS	Stability and Control of Streamlined Bicycles	16-041
Grant, Peter	UTAIS	The C-85 Flying Forklift: A Conceptual Design for a Next-Generation military Tactical Transport Aircraft	16-042
Green, Robin	Psychiatry, Neurosciences	Programming a web based therapy to prevent hippocampal degeneration in patients with moderate-sever traumatic brain injury	18-051

Professor	Department	Thesis Title	Thesis #
Grosse, Roger	Comp Sci	Regularizing Neural Networks with Flipout	17-046
Grosse, Roger	Comp Sci	Sequence GANs Modelling Sequential Data with Generative Adversarial Networks	17-047
Groth, Clinton	UTIAS	Analysis and Development of Sub-Filter Scale Models used to perform large-eddy simulations for premixed turbulent combustion	12-045
Groth, Clinton	UTIAS	Assessment of a Flamelet-based Tabulated Chemistry Technique for the simulation of laminar diffusion flames under high-pressure conditions	13-066
Groth, Clinton	UTIAS	Comparing the Accuracy and Stability of Various High-Order Finite Volume Discretization Strategies for Numerically Solving the Poisson Equation in One Spatial Dimension	15-044
Groth, Clinton	UTIAS	Comparison of Higher order methods for the 1D and 2D Euler Equations	13-067
Groth, Clinton	UTIAS	Evaluation of Detailed Chemical Kinetic Mechanisms for Biodiesel Fuels	13-068
Groth, Clinton	UTIAS	Evaluation of Finite-Volume Spatial Discretization Schemes for Non-Linear Diffusion Operators	13-069
Groth, Clinton	UTAIS	Modelling and Simulation of Hollow Cathodes	16-043
Groth, Clinton P T	UTIAS	1D and 2D Numerical Simulation of Laminar Diffusion Flames of Ethanol in a Counterflow Setup to Compare Extinction Strain Rates Obtained from the Implementation of Dryer et a., Reduce Dryer et al. and Saxena-Williams Chemical Kinetic	17-048
Groth, Clinton P T	UTIAS	Evaluation of Spherical Harmonics Closures for Two-Dimensional Radiation Transfer Equation	17-049
Groth, Clinton P T	UTIAS	Investigation of a Grid-Independent Large Eddy Simulation Method	17-050
Groth, Clinton P T	UTIAS	LES with a PCM-FPI coupled SFM Model Applied to Duct Flow of A Turbulent Premixed Bluff Body Stabilized Flame	17-051
Groth, Clinton P T	UTIAS	Predicting Hybrid Rocket Engine Performance using CFD	17-052
Groth, Clinton P T	UTIAS	Stability Analysis of Diffusive Flux Evaluation Techniques for the Finite Volume Method	17-053
Gulak, Gleen	ECE	Enhanced 2D to 3D Video Conversion Algorithm	13-070
Gulak, Gleen	ECE	FPGA Implementation of Lab-on-a-Chip Storage	13-071
Gulak, Glen	ECE	Comparison of Min-Sum and Difference Map Belief Propagation fo LDPC	13-072
Gulak, Glenn	ECE	Automatic 2D to 3D Video Conversion	12-046
Gulak, Glenn	ECE	Design of a Wireless Radiation Sensor with Web Mapping of the Collected Data	12-047

Professor	Department	Thesis Title	Thesis #
Gulak, Glenn	ECE	Diagnosis/Detection of bacteria on embedded device (i-phone/i-pad) based on wireless communication	14-040
Gulak, Glenn	ECE	Encrypting Transactions for Privacy in Ethereum	17-054
Gulak, Glenn	ECE	FPGA Implementation of an Addictive White Gaussian Noise Generator	14-041
Gulak, Glenn	ECE	Integrating Centralized Web Payment System with Blockchain Database	17-055
Gulak, Glenn	ECE	Mining and Filtering Public Opinion to Predict a Company's Stock Value	14-042
Gulak, Glenn	ECE / MIE	Multi-Physics Modelling of Silicon-based Ablation Chip for Cancer Treatment	14-043
Gulak, Glenn	ECE	Multi-Platform Development of Software Defined Radio	14-044
Gulak, Glenn	ECE	Semiconductor Authentication with Physical Unclonable Functions	16-044
Gulak, Glenn	ECE	Encrypting Sensitive Data in Blockchain Smart Contracts	18-052
Gulak, Glenn	ECE	GPU Microbenchmarking using Warp Scheduling and Integer Performance Benchmarking	18-053
Gulak, Glenn	ECE	Performance of Shor's and Grover's algorithm on a scalable quantum computer	18-054
Gülder, O. L.	UTIAS	Properties of FAME based biofuel blends with Jet A-1, for biofuel products of transesterification of Bio-SPKs	13-073
Gülder, O. L.	UTIAS	Universal Correlation of Diffusion Flame Extinction Limits for Alcohol Fuels	12-048
Gulder, Omer	UTIAS	An Analysis of the Ignition Characteristics of Conventional and Alternative Aviation Fuels	15-045
Gulder, Omer	UTIAS	Sooting propensities of pure hydrocarbons and aviation fuels	18-055
Habib, Khandker	Civil Engineering	Bicycle Demand: Pattern and Estimation in Downtown Toronto	18-056
Haibe-Kains, Benjamin	Medical Biophysics	A Computational Approach to Derive Combinational Drug Therapies in Triple Negative Breast Cancer Using Single-Cell Sequencing	17-056
Harvey, Danny	Geography	2-Dimensional Heat Flow Through Windows and Curtain Walls	13-074
Harvey, Danny	Geography	2-Dimensional Numerical Analysis on the Thermal Bridge Effect of Window Components	13-075
Harvey, Danny	Geography	A Case Study for an Energy Efficiency Retrofit of the Sidney Smith Hall Office Towers	17-057

Professor	Department	Thesis Title	Thesis #
Hatton, Benjamin	MSE	Designing Ultra-Low Adhesive Wound Dressings using SLIPS Interfaces	15-046
Hatton, Benjamin	MSE	Exploring the underlying factors that affect patern-following behaviors of bacterial biofilms on micro-scale patterned agar surfaces using computer simulation	15-047
Hatton, Benjamin	MSE	Role of the Inorganic-Binding A3 Peptide in Gold Nanoparticle Growth	14-045
Hatton, Benjamin	MSE	Superhydrophobic Surfaces in Impact Sports Equipment	17-058
Hatton, Benjamin	MSE	Quantification of chemiluminescent and bioluminescent ATP for bacterial detection	18-057
Hatzinakos	ECE	Photoplethysmorgraphy (PPG) fpr Biometric Authentication	13-076
Hatzinakos, Dimitrios	ECE	A study on embedding Biometric Identifiers in 2D Barcodes as Watermarks	12-049
Hatzinakos, Dimitrios	ECE	Energy Efficiency of Wireless Sensor Networks	15-048
Hatzinakos, Dimitrios	ECE	Finger based ECG Biometrics Acquisition and Recognition System	12-050
Hatzinakos, Dimitrios	ECE	Investigating the 40-Hz Auditory Steady State Response as a Modality for Biometric Verification	17-059
Hatzinakos, Dimitrios	ECE	Non-Instrusive Emotion Rexognition System through Physiological Signals Obtained from Video Magnification Analysis	16-045
Hatzinakos, Dimitrios	ECE	Biometric Verification by Capturing Eye Blinking Motion in Video	18-058
Hatzopoulou, Marianne	Civil Engg	Measuring the Ultrafine Particle Concentrations along Bay Street at Intersections and Midblock: An Assessment on the Effects of Traffic Count Meteorology and the Built Environment	15-049
Hay, Alexander	Civil engineering	Infrastructure engineer competencies in 2030	18-059
Helmy, Amr	ECE	Bandwidth Control of Second Harmonic Generation and Paired Photons	15-050
Helmy, Amr	ECE	Characterization of Silicon Nanocrystals and Liquid Core Waveguides with Raman Spectroscopy and Fourier Transform Infrared Spectroscopy	15-051
Helmy, Amr	ECE	Multilayer Black Phosphorus as a Material Platform for Mid-Infrared Electro-Optics Modulator	16-046
Helmy, Amr	ECE	Quantum Optical Coherence Tomography	16-047
Helmy, Amr	ECE	Raman Spectroscopy for Investigating relative heating effects in solid and aqueous multi-constituent nanostructure systems	18-060
Hibbard, Glenn D.	MSE	An Exploration of Contactless Thermal Expansion Measurement Method for Nanocrystalline Nickel Hybrid Microtruss	13-077

Professor	Department	Thesis Title	Thesis #
Hibbard, Glenn D.	MSE	Idenfication and Control of Defects in Closed-Cell Stochastic Honeycomb Core Materials	14-046
Hibbard, Glenn D.	MSE	Roughness and Geometry of Rapid Prototyped Polymer Microtrusses as Preforms for Nanocrystalline Nickel Electroplating	13-078
Hibbard, Glenn D.	MSE	The Electrodeposition of Nanocrystalline Nickel on Micro-trusses	13-079
Hinton, Geoffrey	Comp Sci	Distributed Training of Artificial Neural Networks through feature Crossovers	13-080
Huggins, William	Rotman	The Impact of Public-Private Partnership on Canadian Infrastructure Project Efficiency	13-081
Hum, Sean	ECE	The Design of a Compound Aperture using Transmitarray and Reflector to Increase Gain	12-051
Hum, Sean	ECE	Neural network inverse models for electromagnetic metasurface design	18-061
Hum, Sean V	ECE	Synthesis of a Multibeam Dual Reflectarray Beam Pattern Using Genetic Algorithms	17-060
Hynynen, K	Med Biophysics	Increasing Portability of Ultrasound Therapeutic Devices	13-082
Iravani, Reza	ECE	Automatic Identification fo Cortical Lesions in Multiple Sclerosis Using Texture Analysis	16-048
Iravani, Reza	ECE	Conmprehensive Reviews in Maximum Power Point Tracking (MPPT) Algorithms in Photovoltaic (PV) Systems	16-049
Iravani, Reza	ECE	Control Analysis and Fault Study of a Voltage-Sourced Converted Based HVDC System in PSCAD/EMTDC Environment	13-083
Iravani, Reza	ECE	Control and Operation of a Utility Grid Connected Battery System	17-061
Iravani, Reza	ECE	Design and Simulation of Grid-connected barry storage	14-047
Iravani, Reza	ECE	Optimal Hybrid Energy Systems for Stand-Alone Remote Community Electrification	13-084
Iravani, Reza	ECE	Predicting Toronto Area Medium Voltage Underground Distribution Cable Failures	16-050
Iravani, Reza	ECE	Short Circuit Analysis of Community Energy Storage on Finch M28	13-085
Iravani, Reza	ECE	Study and Design of a Battery Energy Storage System (BESS) for Dynamic Load Compensation	14-048
Iravani, Reza	ECE	Studying the Effects of Renewable Distributed Generators on Tap Changing Voltage Regulators	14-049
Iravani, Reza	ECE	Voltage Regulation from Battery Power Injection	13-086

Professor	Department	Thesis Title	Thesis #
Irish, Rob	Engg Comm	Assessment and Instruction of Ethics in Undergraduate Engineering Education	13-087
Jackson, Ken	Comp Sci	A Comparison of American Put Option Numberical Pricing Methods	14-050
Jackson, Ken	Comp Sci	A Comparison of Numerical methods for American put Options	13-088
Jackson, Ken	Comp Sci	Algorithmic Trading and Dynamic Optimization of Markov Pricing Models	13-089
Jackson, Ken	Comp Sci	Comparing Numerical Methods for Pricing American Put Options	15-052
Jackson, Ken	Comp Sci	Comparing Numerical methods for solving the American Option Problem	13-090
Jackson, Ken	Comp Sci	Finite Difference Methods for Pricing American Options	15-053
Jackson, Ken	Comp Sci	Mathematical Models for Pricing American Options	16-051
Jackson, Ken	Comp Sci	Numerical Analysis on American Option Pricing Methods	12-052
Jackson, Ken	Comp Sci	Numerical Methods on American Option Pricing	12-053
Jackson, Ken	Comp Sci	Numerical Methods on American Option Pricing	13-091
Jackson, Ken	Comp Sci	Numerical Methods to Price the American Put Options	14-051
Jackson, Ken	Comp Sci	Numerical PDE Approach for Pricing American Put Options	13-092
Jackson, Ken	Comp Sci	Pricing Convertible Bonds: An Investigation in Numerical Analysis	13-093
Jackson, Kenneth R	Comp Sci	Efficiency Analysis of Numerical Methods for Valuing American Options	17-062
Jaimungal, S.	Statistics	Continuous Optimal Liquidation using Heston Volatility Model Fill Rate of Limit Order in Current Market Place	13-094
Jaimungal, S.	Statistics	Utilizing limite order book (LOB) data for investigation of high frequency trading (HFT) strategies	13-095
Jaimungal, Sebastian	Statistics	Reinforcement Learning and Its Application in Optimal Execution	16-052
Jaimungal, Sebastian	Statistics	Stochastic Dynamic Programming Approach to Optimal Execution	15-054
James, David	MIE	Flow Characteristics of Tailings Pastes for Surface Disposal	14-052

Professor	Department	Thesis Title	Thesis #
Jamieson, Greg	MIE	User Interface Design How to Apply Adaptive Automation on a Mobile Device for Workplace Hazard Identification	17-063
Jamieson, Greg	MIE	The Accuracy and Precision of the Integrated Eye Tracking Sensors in the FOVE 0 Virtual Reality Headset	18-062
Johns, David	ECE	Analysis of Charge-Pump based switched-Capacitor Gain Stage	14-053
Johns, David	ECE	BeagleBone Black Controlled Quadcopter with Video Streaming	14-054
Johns, David	ECE	Designing a new family of smart camera solutions for Automated Video Surveillance	14-055
Johns, David	ECE	Improving Low Cost Surveillance Systems using Audio Detection Methods	14-056
Jones, Dylan		The Quasi-Biennial Oscillation in the GEOS-CHEM Model and its Effect on the Ozone Distribution	15-055
Julian, Stephen	Physics	Development of a Tungsten Carbide Anvil Cell	15-056
Jursica, Igor		Data-Driven Biological Pathway Definition and Characterization	15-057
Karney, Brayan and Yatchew, Adonis	CIVIL	Of Beck and Bourassa: A Historical Analysis of the 100-Year Saga of Electric Utilities in Search of Guiding Lessons to Adapt to A Climate Change World. A Story of Hubris, and How to Avoid It.	17-064
Karney, Bryan	Civil Engg	A Preliminary Study of Energy Recovery for Anaerobic Wastewater Treatment	15-058
Karney, Bryan	Civil Engg	An Investigation into Public Funding of Nuclear Fusion Research	16-054
Karney, Bryan	Civil Engg	Application fo an Engergy Based Approach to Unsteady Transient Dissipation in Fluid-Conduit Systems	16-055
Karney, Bryan	Civil Engg	Construction of a Pumped Storage Hydroelectricity Simulator for Educational Purposes	16-056
Karney, Bryan	Civil Engg	Course Design: The Study of the Lifecycle of Municipal Water Pipeline Leakage	16-057
Karney, Bryan	Civil Engg	Design of Framework for Setting Conversation Targets for Ontario	13-096
Karney, Bryan	Civil Engg	Economic Analysis of Pumped Hydro Technologies in Ontario	15-059
Karney, Bryan	Civil Engg	Electricity Market Restructuring in Ontario	15-060
Karney, Bryan	Civil Engg	Electricity Policy Framework in Ontario	12-056
Karney, Bryan	Chem Engg	Examining the Resilience of Thermal and Nuclear Cooling Water Systems in a changing and unpredictable world	14-057

Professor	Department	Thesis Title	Thesis #
Karney, Bryan	Civil Engg	Improved Design: A Water Tank System for Rainwater Harvesting for Garden Irrigation for House-owners	16-058
Karney, Bryan	Civil Engg	Investigation of Land Price Impact on Wind Generation Cost in Canada. A Police modification to encourage growth and/or reduce cost	12-057
Karney, Bryan	Civil Engg	Micro Hydroelectric Turbines For Energy Recovery in Municipal Water Supply Systems	13-097
Karney, Bryan	Civil Engg	Modelling the Effect of Climate Change Scenarios on Snowmelt Runoff in the Kootenay Region	14-058
Karney, Bryan	Civil Engg	Objective Comparison between Different Forms of Energy Generation and Suggest a Better Source of Energy	16-059
Karney, Bryan	Civil Engg	Searching for Conservation: Critial Look at the Systemic Implications of Fire Flows and Operational Guidelines on Water System Sustainability	12-058
Karney, Bryan	Civil Engg	Simple Evaluation Criteria for Constructed Wet Lands in an Urban Context	14-059
Karney, Bryan	Civil Engg	Transient Pressure Wave Focusing and Interference in Hydaulic Systesm	14-060
Karney, Bryan	Civil Engg	Underground pumped hydro storage in Ontario	15-061
Karney, Bryan	CIVIL	Water Hammer Analysis using the Method of Characteristic in MATLAB	17-065
Karney, Bryan	Civil Engg	Water Hammer and Instrumentation	16-061
Karney, Bryan and Foster, Jason	CIVIL	The Engineer's Role in Climate Change Policy: Can the Silent Profession Find a Voice?	17-066
Kelly, Jonathan	UTAIS	3-DOF Extrinsic Calibration between a 2D Lidar and IMU using Particle Filtering	16-062
Kelly, Jonathan	UTIAS	A Preliminary Study on the Performance of Multiple IMU Fusion Methods for Pedestrian Inertial Navigation	17-067
Kelly, Jonathan	UTAIS	Aclonal and Clonal Multi-Robot Evolutionary Behavior for Exploring Extra-Terrestrial and Terrestial Environments	16-063
Kelly, Jonathan	UTIAS	Automatic Push-button Calibration Methods for an Assistive Wheelchair	17-068
Kelly, Jonathan	UTIAS	Direct Guidance of Mobile Manipulators using Variable Impedance Control	17-069
Kelly, Jonathan	UTIAS	Extrinsic Calibration of 2D Lidars to Inertial Measurement Units	15-062
Kelly, Jonathan	UTAIS	First Estimates Jacobian vs. Minimal Realization Model: A Comparative Study on Observability -Based Approaches to the Consistency of EKF-SLAM	16-064
Kelly, Jonathan	UTAIS	Locating Doors in Images Using Deep Neural Networks	16-065

Professor	Department	Thesis Title	Thesis #
Kelly, Jonathan	UTAIS	Low-Cost. Robust and Reliable Assistive Robotics in the Real World	16-066
Kelly, Jonathan	UTIAS	Self-Driving Wheelchair Desk Docking with ArUco Markers	17-070
Kelly, Jonathan	UTIAS	Using Deep Learning to Detect Charging Outlets in Real-Time	17-071
Kelly, Jonathan	UTIAS	Vision-based collision avoidance for personal aerial vehicles using dynamic potential fields	15-063
Kelly, Jonathan	UTIAS	Calibration and bench-marking of extrinsics between cameras and 3D laser range finders	18-063
Kelly, Jonathan	UTIAS	Tracking ballistic missiles using distributed mobile sensors in GPS-denied environments	18-064
Kelly, Jonathan	UTIAS	Improving sun tracking techniques used to limit visual odometry drift by incorporating knowledge of temporal restrictions on sun location	18-065
Kelly, Jonathan	UTIAS	Design and implementation of an unmanned dual-rotor tail-sitter vehicle	18-066
Kennedy C./Bristow D.	Civil Engg	Visualizing Urban Impacts on Planetary Boundaries using Google Earth	13-098
Kesler, Olivera	MIE	Manufacturing and Protective Coatings of Stainless Steel Supports for use in Intermediate Temperature Solid Oxide Fuel Cells	13-099
Kesler, Olivera / Harris, Jeff	MIE	Investigation of Manganese Cobaltite as a Coating Alternative for Porous Metal Support	16-067
Ketterle, Wolfgang / Steinberg, Aephraim	MIT	Narrow Linewidth laser System for Creation of NaLi Ultracold Molecules via STIRAP	16-068
Kharani, Nazir	ECE	Design of a Portable Charging Soluction for Mobile Devices	14-061
Kherani, Nazir	ECE	Exchange Project Report (Programming the Keithley 4200)	15-064
Kherani, Nazir	ECE	In-Pipe Pico-Hydro Generator for Powering Smart Water Meter	13-100
Kherani, Nazir	ECE	Solar Cell Surface Passivation and Inverted Pyramid Texturization as a way of increasing solar cell efficiency	12-059
Kherani, Nazir	ECE	Thin Film Silicon Micromorph Tandem Solar Cell: A Multiphysics Modeling Study	14-062
Kherani, Nazir P	MSE	A Numerical Study on the Impact of Geometrical Variations in a Sub-Wavelength Plasmonic Grating Structure	17-072
Khisti, Ashish	ECE	Artificial Noise Transmission and Antenna Subset Modulation for Physical Layer Security in mm-Wave Antenna Array Communication Systems	15-065
Khisti, Ashish	ECE	Investigating Wireless Security	13-101

Professor	Department	Thesis Title	Thesis #
Khisti, Ashish	ECE	The Effect of Varying Window Size on the Performance of Linear Block Codes with Fixed Time Delay in Video Streaming Applications	13-102
Khisti, Ashish	ECE	Regularization Countermeasures to the Model Inversion Attack	18-067
Khisti, Ashish	ECE	Using Neural Networks to Classify House Numbers from Google Street View Images	18-068
Khisti, Ashish	ECE	Application of Forward Error Correction Codes on Two Schemes with a Simple 3-Node Setup which are Subjected to Different Time Constraints	17-073
Kilkenny, Dawn	IBBME	Characterizing the Interaction Between Membrane-Bound Receptors FGFR1 and FGFR5	16-069
Kilkenny, Dawn	IBBME	Dark Receptor HomoFRET: A New Approach to Flourescence-Anisotropy Imagin to Study Membrane-Cound Receptor Aggregation State	16-070
Kilkenny, Dawn	IBBME	Investigating the role of fibroblast growth factor receptor 5 (FGFR5) in pancreatic B-cell ahesion	15-066
Kim, Philip	IBBME	Developing Software for Rapic Analysis of High-Throughput Antibody Sequencing Data	13-103
Kim, Philip	Donnely Centre	Novel Predictor for Combinational Drug Therapies using Machine Learning	14-063
Kim, Y. J.	IBBME	The Structural Phases of the iron Pnictides	13-104
Kippalani, Anish and Leung, General	Medical Imaging	Creating Matlab Tool to Automatically Calculate the Stiffness of the Kidney using the MIRI Data	17-075
Kirk, D. W.	Chem Engg	Hydrogen Control in Zinc-Air Battery Technologies	15-067
Kirk, Donald	Chem Engg	Thermal Effects on Supercapacitor Behaviour	12-060
Kirpalani, Anish	Institute of Medical Science	Auto-segmentation of Kidney in Abdominal Magnetic Resonance Images	18-069
Kirpalani, Anish and Leung, General	Medical Imaging	Development of a Graphic User Interface for Diffusion Weighted Magnetic Resonance Imagine Analysis in Kidney Transplants	17-076
Knox A / Karney B / Reuber R.	Civil Engg	Investigating the Feasibility of a used cooking oil-biodiesel plant in Toronto	15-068
Kundur, Deepa	ECE	Dynamic Modeling and Simulation of Microgrid	14-064
Kundur, Deepa	ECE	Extending Automatic Image Captioning Systems with Multimodal Datasets	15-069
Kundur, Deepa	ECE	Lightweight Spread Spectrum Image Fingerprinting	15-070
Kundur, Deepa	ECE	Motion Recognition and Scoring Using a Wearale Inertial Measurement Unit	14-065

Professor	Department	Thesis Title	Thesis #
Kundur, Deepa	ECE	Investigating the Impact of Intrusion Detection System Performance on the Communication Latency and Power System Stability	16-071
Kushner, Paul	Physics	The dynamics of heat waves in the Mid-latitude of north American summertime climate	15-071
Kwon, Oh-Sung	Civil Engg	Identifying and Quantifying Errors present in FHWA Retrofitting Manual Structural Analysis Technique subject to Liquefiable Soil	13-105
Kwon, Oh-Sung	Civil Engg	Modeling the Effectiveness of Noise and Vibration Reduction Measures for Subways	16-072
Kwon, Roy	MIE	A Comparison of Portfolio Strategies	12-061
Kwon, Roy	MIE	Closed-end Funds Versus a Portfolio of Exchange-Traded Funds: Optimality Assessment	12-062
Kwon, Roy	MIE	Generating Alpha by Capitalizing on Market Inefficiencies	16-073
Kwon, Roy	MIE	Implementing the Black-Litterman Asset Allocation Model by using Machine Learning Algorithms to Generate Views	15-072
Kwon, Roy	MIE	Incorporating Phase-Looking Effects in Asset Allocation-Regime Switching Models	12-063
Kwon, Roy	MIE	Local Relaxation Algorithms for Financial Portfolio Optimization	17-077
Kwon, Roy	MIE	Looking for Outliers: Finding the Next Superstar Quarterback	16-074
Kwon, Roy	MIE	Optimal Liquidation Strategy Based on Almgren and Chriss Model	12-064
Kwon, Roy	MIE	Optimal Liquidation: A Data Driven Approach	12-065
Kwon, Roy	MIE	Optimal Portfolio Liquidation using Scenario Based Stochastic Method	12-066
Kwon, Roy	MIE	Personal Financial Planning through the Wealth Allocation Framework	16-075
Kwon, Roy	MIE	Portfolio Re-balancing Optimization for Wealthsimple	15-073
Kwon, Roy	MIE	Portfolio Rebalancing Optimization: A Threshold Approach to Portfolio Management in R	16-076
Kwon, Roy	MIE	Portfolio Trading Strategy	17-078
Kwon, Roy	MIE	Predicting Stock Market Trend Using Stochastic Method	17-079
Kwon, Roy	MIE	Regime Switching in Asset Allocation	12-067

Professor	Department	Thesis Title	Thesis #
Kwon, Roy	MIE	Risk Parity Approach for Asset Allocation and Its Emprical Performance	16-077
Kwon, Roy	MIE	Scenario Generation and Stochastic Programming Models for Asset Liability Management	17-080
Kwon, Roy	MIE	Stochastic Programming Models for Asset Liability Management in Pension Funds	17-081
Kwon, Roy	MIE	The Design of a Risk Mitigating Daily-Rebalancing Trading Strategy Utilizing Optimization and Prediction Models	17-082
Kwon, Roy	MIE	Tracking the Stock Index under Uncertainty	14-066
Kwon, Roy	MIE	Two-Stage Simple Recourse Integer Programming Decomposition of Graver Basis Runtime Testing	15-074
Kwon, Roy	MIE	Using Fundamental Index Concepts for Autonomous View Generation in the Black Litterman Portfoliio Optimization Framework	15-075
Kwon, Roy	MIE	A Comparison of 3 Common Portfolio Optimization Frameworks Using a 3-factor Model for Parameter Estimation	18-070
Kwon, Roy	MIE	Optimized market-neutral trading strategies of leveraged exchange traded funds	18-071
Kwon, Roy	MIE	Shrinkage Estimation in portfolio optimization for long-short portfolios	18-072
Kwon, Roy	MIE	Designing an Optimal Hedging Strategy for Meridian's Market Linked GICs	18-073
Kwon, Roy	MIE	Stock Prices Forecasting with Deterministic Echo State Networks	18-074
Kwong, Raymond	ECE	Performance Analysis of a Semi-Fragile Watermarking Scheme for Image Authentication	12-068
Lavoie, Philippe	UTIAS	Advance Aerodynamics for Racing Bicycles through load Cell Experiments	13-106
Lavoie, Philippe	UTIAS	Aerodynamic characterization of a Fying Wing Aircraft with Wingtip Devices in near Incompressible Flow	12-069
Lavoie, Philippe	UTIAS	Aerodynamics of Advanced Racing Bicycles	13-107
Lavoie, Philippe	UTIAS	Characterizing the Relationship between External Vibrations and Boundary Layer Transition on a Streamlined Bicycle	17-083
Lavoie, Philippe	UTAIS	Experimental Measurements of Decay of Turbulence in a Wind Tunnel due to Square Fractal grids using Hot-Wires	16-078
Lavoie, Philippe	UTIAS	Extended Duration Degradation of SDBD Plasma Actuators	12-070
Lavoie, Philippe	UTIAS	Investigation of Laminar Boundary Layer Measurements with Single- and Multi- Hole Pressure Probes	13-108

Professor	Department	Thesis Title	Thesis #
Lavoie, Philippe	UTIAS	KQS Speed Bike Project - Strain Gauge Load Cell Calibration for Determine Aerodynamic Force Acting on a Novel Bicycle Design Inside Wind Tunnel	17-084
Lavoie, Philippe	UTIAS	Optimizer for Low-Reynolds Number Propellers	17-085
Lavoie, Philippe	UTAIS	Spatiotemporal Analysis of Flying Hotwire Measurements in a Turbulent Jet Flow	16-079
Lavoie, Phillipe	UTIAS	Evolutions and Interactions of Vortex Structures in Isolated Round Jet	18-075
Lawryshyn, Yuri	Chem Engg	Analyzing the Trends Between Gold and Oil	16-080
Lawryshyn, Yuri	Chem Engg	Application of Advanced Optimization and Machine Learning in Real Option Decision Boundaries	17-086
Lawryshyn, Yuri	Chem Engg	Application of Local volatility Model in Equity Derivative Pricing	13-109
Lawryshyn, Yuri	Chem Engg	Application of Local volatility Model in Equity Derivative Pricing II	14-067
Lawryshyn, Yuri	Chem Engg	Best practices in Estimating the Impact6 of One-Off Events	16-081
Lawryshyn, Yuri	Chem Engg	Blockchain Application within the Financal Industry	16-082
Lawryshyn, Yuri	Chem Engg	Calibrating the Schwartz One Factor Model with Market Data	14-068
Lawryshyn, Yuri	Chem Engg	Corporate Actions and Market Impacts on Canadian and American Equity Stocks	14-069
Lawryshyn, Yuri	Chem Engg	Data Cleansing for Financial Time Series	14-070
Lawryshyn, Yuri	Chem Engg	Developing a Hedging Calculator based on the Swartz-Smith short term/long term model - A Kalman Filter Approach	13-110
Lawryshyn, Yuri	Chem Engg	Developing a Hedging Calculator for Options on Commodities Future	12-071
Lawryshyn, Yuri	Chem Engg	Equity Option Pricing with Discrete Dividends	14-071
Lawryshyn, Yuri	Chem Engg	Estimating US and Canadian Retail Portfolio Asset Correlations	12-072
Lawryshyn, Yuri	Chem Engg	Financial Option Hedging and Pricing using Neural Network Model	17-087
Lawryshyn, Yuri	Chem Engg	General Finite Difference Method Solver for Linear Second Order Partial Differential Equations with Examples in Financial Derivatives	15-076
Lawryshyn, Yuri	Chem Engg	Impementation of Local Volatility Model for Option Pricing	16-083

Professor	Department	Thesis Title	Thesis #
Lawryshyn, Yuri	Chem Engg	Investigate the Use of LSTM Neural Networks in Predicting Changes in the Crude Oil Market	16-084
Lawryshyn, Yuri	Chem Engg	Investigation of Implied Volatility Surface Modelling	16-085
Lawryshyn, Yuri	MIE	Macroeconomic Credit Risk Modelling for Global Corporate Sector	15-077
Lawryshyn, Yuri	Chem Engg	Modeling Commodity Futures: Price Levels and Volatilities	12-073
Lawryshyn, Yuri	Chem Engg	Predictive Analytics with Large Data Sets	12-074
Lawryshyn, Yuri	Chem Engg	Prepayment Modelling for Mortgage-Backed Securities	14-072
Lawryshyn, Yuri	Chem Engg	Pricing Callable Bonds Subject to Default using 3-D Partial Differential Equations	13-111
Lawryshyn, Yuri	Chem Engg	Pricing the European Call Option in the Heston Model using alternating Direction Implicit Finite Difference Methods	14-073
Lawryshyn, Yuri	Chem Engg	Real Options Analysis Valuation: A Comparative Look at the Matching Method and DCF Analysis	14-074
Lawryshyn, Yuri	Chem Engg	Recommendations for an Improved ETF Hedge Trading Algorithm	15-078
Lawryshyn, Yuri	Chem Engg	Spreadsheet Tool for Valuing Early Stage Investment Opportunities: A Real Option Approach	13-112
Lawryshyn, Yuri	Chem Engg	Stochastic Votality Health-Jarrow-Morton Model	13-113
Lawryshyn, Yuri	ChemEngg	Thesis: Developing Monte Carlo Solver for Genertic Stochastic Processes	15-079
Lawryshyn, Yuri	Chem Engg	Time-Varying Correlations and Covariances for Asset Allocation	14-075
Lawryshyn, Yuri	Chem Eng./IBBME	Total Cost of Ownership for Enterprise Application Software	13-114
Lawryshyn, Yuri	Chem Engg	Valuing American Options Using Least-Squares Monte Carlo	16-086
Lawryshyn, Yuri	Chem Eng	Applications of Deep Learning in Intrusion Detection Systems	18-076
Lawryshyn, Yuri	Chem Eng	Improvements to a Generic Fixed Income Portfolio Optimization Tool	18-077
Lawryshyn, Yuri	Chem Eng	A Framework for Utilizing Physical Activity Logs for Malicious Activity Detection	18-078
Lawryshyn, Yuri	Chem Eng	Portfolio Optimization Techniques: A Search for Alpha	18-079

Professor	Department	Thesis Title	Thesis #
Lee, C.G / Chan Timothy	MIE	Optimization of Radiation Therapy, A combinatorial Auction Approach	12-075
Lee, Chi Guhn	MIE	Adaptive Lattice Pricing Framework for Options with Regime Switching	12-076
Lee, Chi Guhn	MIE	Addressing the Problems with Current Methods in Pairs Trading	13-115
Lee, Chi Guhn	MIE	On Global Optimization of Expensive Stochastic Black-Boxes: A Surrogate-Based Approach	13-117
Lee, Chi Guhn	MIE	Self-similarity and volatility measures in high-frequency trading	13-118
Lee, Chi Guhn	MIE	Statistical Estimation of Regime Switching Model Parameters Using Wholesale Electricity Market Data	12-077
Lee, Chi Guhn	MIE	Valuing Bermudan Options Using a Variable Time Step Trinomial Tree	12-078
Lee, Chi Guhn	MIE	Development of a 3-State Prediciton Algorithm for Pairs Trading	13-116
Lee, Chi-Guhn	MIE	A Microscopic Discrete Event Simulation (DES) Tool of Signalized Traffic Network	16-090
Lee, Chi-Guhn	MIE	Application fo Network Modelling to Security	16-091
Lee, Chi-Guhn	MIE	Apply A* Heuristic Search to Deterministic DP Framework and MDP Framework in Solving Dynamic Pricing of Limited Inventories for Revenue Management over a Finite Selling Horizon	15-080
Lee, Chi-Guhn	MIE	Applying the Concepts of Swing Option Pricing Theory to Everyday Decision Making Scenarios	16-092
Lee, Chi-Guhn	MIE	Findind a Solution to the Optimal Liquidation Problem Through Stochastic and Dynamic Programming	16-093
Lee, Chi-Guhn	MIE	Formulating a 3-State Regime Switching POMDP for Optimal Financial Allocation	16-094
Lee, Chi-Guhn	MIE	The Optimal Management of Energy Storage Devices in Electricity Transmission Systems Using Markov Decision Processes	17-088
Lee, Chi-Guhn	MIE	Web and Mobile Development of Three-State Markov Regime Switching Model which Analyzes the Stock Market Movement	16-095
Lee, Chi-Guhn	MIE	Long short-term memory networks for portfolio optimization	18-080
Lee, Chi-guhn	MIE	Water quality prediction at Mtendeli Refugee Camp in Tanzania with hierarchical clustering and custom ensemble regression model	18-081
Lee, Chi-Guhn	MIE	Reinforcement learning technique and portfolio optimization	18-082
Lee, Chi-Guhn	MIE	A Multi-Agent Reinforcement Learning Approach to Energy and Comfort Management	17-089

Professor	Department	Thesis Title	Thesis #
Lehn, Peter	ECE	A new Anti-Islanding Algorithm for Converter-Based Distributed Generation	13-119
Lehn, Peter	ECE	A Novel Iteractive Stacked Topology for DC-DC Boost Applications	15-081
Lehn, Peter	ECE	CPL Modelling in AC Systems	12-079
Lehn, Peter	ECE	Design of Load Current Balancer for Small Wind Generators	12-080
Lehn, Peter	ECE	Dynamic Reactive Power Control to Increase Grid Penetration for Distributed Solar PV Generators	16-096
Lehn, Peter	ECE	Dynamic State-Space Modeling of new class of Modular Multilevel Bidirectional DC/DC Converters for High-Voltage DC Applications	14-076
Lehn, Peter	ECE	Evaluating the Performance of Advanced Time Averaging Modelling Techniques in a Dual Active Bridge Converter	17-090
Lehn, Peter	ECE	Improving DC-DC Converter Efficiency for Photovoltaic Systems	13-120
Lehn, Peter	ECE	Investigation of a Topology and Control Strategy for a High Power Density Single Phase Converter for Applications in Integrating Renewble Energy Technology in Residential Areas	16-097
Lehn, Peter	ECE	Exploiting Resonant Coil Circuits for Wireless Charging of Electric Vehicles	18-083
Levi, Ofer	IBBME	Characterization of Intracellular Fluorescent Calcium and Potassium Indicators for Real-Time Measurement of Neutral Spatiotemporal Dynamics	13-121
Levin, David	Computer Science	A general method for applying secondary motion to artist-controlled computer animation	18-084
Li, Baochun	ECE	An Efficient Non-Interactive Multi-client Searchable Encryption Implemented in C++	17-091
Li, Baochun	ECE	Improving Performance of Video Conferencing Solutions through the Amazon EC2 Cloud	12-081
Li, Baochun	ECE	Runtime Resources Aware Scheduling for Wide-Area Analytics	17-092
Li, Baochun	ECE	Defenses Against Adversarial Attacks Through Analysis of Activations in Neural Network Intermediate Layers	18-085
Li, Baochun	ECE	Job Scheduling and Resource Management in DAGs	18-086
Li, Baochun	ECE	Dynamic SLA-aware workflow and job scheduling algorithm	18-087
Li, Baochun and Wang, Hao	ECE	Optimizing SparkSQL Execution by Machine Learning	17-093
Li, David	ECE	Accounting for power usage in program scheduling for smartphones	12-082

Professor	Department	Thesis Title	Thesis #
Lian, Keryn	MSE	Characterization and Optimization of SiWA-based Electrolytes for Electrochemical Capacitors under Ultra-Low Relative Humidity Conditions	13-122
Lie, David	ECE	Adser: An Advertising Service for Android with Reduced Energy Consumption	13-123
Lie, David	ECE	Analyzing Permission Mappings on Android 4.1 to 4.4 and Implementing a Path Sensitive call Graph Traversal in PScout	14-077
Lie, David	ECE	Analyzing the Android Permission Specification in Native Code	13-124
Lie, David	ECE	Audit File System for Android Specific Data	13-125
Lie, David	ECE	Automated Intent Extraction from Android Application Binaries	16-100
Lie, David	ECE	Chimp: An intelligent automated tester for Android applications.	14-078
Lie, David	ECE	Development of a Symbolic Execution Engine for Android Applications by Simulating In-Vivo Execution	15-084
Lie, David	ECE	Extending Battery Life - an application scheduler for Android	12-083
Lie, David	ECE	Improving KVM Security through Incremental Deprivileging of its Execution	14-079
Lie, David	ECE	On-Device Data Usage and Broadcast by Popular Android Apps	13-126
Lie, David	ECE	Statitical Study of Android Vulnerabilities: Where are the weak spots in the Source Code?	16-101
Lie, David	ECE, Computer science	Exploring security vulnerabilities with fuzzing technique	18-088
Lie, David	ECE	Enhancing IntelliDroid for User Interface Input Generation	18-089
Liebeherr, Jorg	ECE	Bit Error Rate in Vehicular System	15-085
Liscidini, Antonio	ECE	Investigation of Energy Harvesting System Compliant to Wireless Sensor Networks	16-102
Liscidini, Antonio	ECE	Study of Fundamental Limitations of Time-based Analog Circuits compared to the Voltage Domain Approach	15-086
Liscidini, Antonio	ECE	Analysis of a Low-power High-Speed QPSK Transmitter Using an Injection-locked LD Driver	16-103
Liscidini, Antonio	ECE	Inherently Fractional Divider for All-Digital Phase-Locked Loops	16-104
Liu, Hugh	UTIAS	Acceleration Model as applied to Multiplayer Pursuit-Evasion Games	12-084

Professor	Department	Thesis Title	Thesis #
Liu, Hugh	UTIAS	Investigating the Effects of Flexible Winglets on the Flight Dynamics of a Glider	12-085
Liu, Hugh	UTIAS	Thrust-Only Flight Control for Damaged Aircraft	12-086
Liu, Hugh	UTIAS	Vision - Based Obstacle Avoidance in UAVs	15-087
Liu, Hugh	UTIAS	Vision -based Estimation and Control of Quadrotors on an Indoor Fire Monitoring Platform	14-080
Liu, Hugh	UTIAS	Vision based ground target tracking by UAS	15-088
Liu, Hugh	UTIAS	Vision-based Leader-Follower Formation Control	12-087
Liu, Hugh	UTIAS	Automatic Landing for Quadrotors using Hybrid Visual Servoing	18-090
Liu, Hugh	UTIAS	Control for Pursuit-Evasion Games with Defensive Evader Capabilities	18-091
Liu, Hugh H T	UTIAS	Aircraft Systems and Modelling for a Flight Training Device and Gust Alleviation Investigation	17-094
Liu, Hugh H T	UTIAS	Vertical Control of Quadcopter Autolanding with Application of Visual Based Navigation	17-095
Liu, Hugh H.T.	UTAIS	Formation Reconfiguration Control of Unmanned Aerial Vehicles (UAVs)	16-105
Lo, Hoi-Kwong	ECE	An Autobias-Control System for the Optical Intensity Modulator	17-096
Lo, Hoi-Kwong	ECE and Physics	Designing a gigahertz measurement-device-independent quantum key distribution source	18-092
Lu, Hai / Yang Libyan	Rotman	Corporate Disclosure and Cost of Capital	12-088
Lu, Zheng-Hong	MSE	Transparent Metal Electrodes with Seed Layers	14-081
Lu, Zheng-Hong	MSE	White Light Mixing - LED and OLED	14-082
Mackay, Matthew	MIE	Coordination of a Multi Aerial Robotics System with Dynamic Environmental Conditions	18-093
MacLean, Heather	CIVIL	Dimethyl Ether as a Fuel for Heavy Duty Vehicles Life Cycle Assessment for Western Canada	17-097
MacLean, Heather	Civil Engg	Life Cycle Assessment of alternative aviation fuels	14-083
MacLean, Heather	Civil Engg	The Greenhouse Gas Emissions Life Cycle Performance of In Situ Combution in the Canadian Oil Sands and an Evaluation of Potential GHG Mitigation Techniques	14-084

Professor	Department	Thesis Title	Thesis #
Maggiore, Manfredi	ECE	Control Design for Two Quadrotor Systems	13-127
Maggiore, Manfredi	ECE	Optimal virtual holonomic constraints	18-094
Makis, Viliam	MIE	Energy Systems Travelling Repairman Problem	17-098
Makis, Viliam	Industrial Engineering	Modelling of Deterioration of Concrete Bridges by Gamma Process	16-106
Makis, Viliam		An Application of DPCA to Oil Data for Optimal Bayesian Maintenance Control	15-089
Mandelis, Andreas	MIE	Development of Photoacoustic Radar Imaging for Endoscopy	15-090
Mandelis, Andreas	MIE	Laser Photoacoustic Diagnostics for Bone Osteoporosis	14-085
Mann, Steve	ECE	Accurate Body Motion Tracking and Movement Quantification on Mobile Devices	16-107
Mann, Steve	ECE	Detection and Guidance for People's Posture Problem: Development of Multi-3D-Angle based Posture Detection Algorithm	16-108
Mann, Steve	ECE	Development of a Rock Climbing System to Validate Absement as a Metric for Climbing Performance	15-091
Mann, Steve	ECE	Tactile User Interface Design for Vitural and Augmented Reality	16-109
Mann, Steve	ECE	TeensySwarm: An Algorithm for Real-Time Audio perception on Embedded Platforms	17-099
Mann, Steve	ECE	The Development of Hardware for an Everday Use Augmented Reality Seeing Aid	16-110
Mann, Steve	ECE	User Interfaces based on Humanistic Intelligence	18-095
Mann, Steve	ECE	Augmenting Reality with High Dynamic Range Imaging and Sequential Wave Imprinting Machines	17-100
Mansour, Mohamed	Comp Sci	Open source gaze tracking using simple cameras	15-092
Marbach, Peter	Comp Sci	Avalanche Flexible and Fast Batch Processing for Real-Time data generating Applications	14-086
Marbach, Peter	Comp Sci	Avalanche: Flexible and fast batch processing for real-time data generating applications	14-087
Martel, Anne	Sunnybrook Research Institute	Classification of Cancer Cellularity in Histology Images Using Convolutional Neural Networks	17-101
Masani, Kei	IBBME	Feasibility of Single-Mass Model Applied to Human Upright Stance Exhibiting Large Voluntary Upper-Body Movements	16-111

Professor	Department	Thesis Title	Thesis #
Masani, Kei	IBBME	System Identification of the Control System for Quiet Standing	16-112
Masani, Kei	IBBME	Evaluation of a Visual Feedback Training and Functional Electrical Stimulation System	18-096
McCabe, Brenda		Automatic Freeform Construction Application Research	15-093
McCann, Robert	Math	Mean Field Games in Asset Price Coordination	17-102
McCurdy, Tom	Rotman School of Mgmt	Is there Magic in the Magic Formula? A Five-Factor Asset Pricing Model Inspired by a New York Times Bestseller	16-113
McGuigan, Alison	Chem Engg	Adser: An Advertising Service for Android with Reduced Energy Consumption	13-128
McGuigan, Alison	Chem Engg	Engineering a Three-Dimentional Model for In-Vitro Study of Sprouting Angiogenesis	12-089
McGuigan, Alison	Chem Engg	A 3D Tissue Mimetic Culture Platform fo the Distal Lung	16-114
McIlraith, Sheila	Comp Sci	Creating Approximately Stable Couples Matching With Partial Preference	17-103
McIlraith, Sheila	Computer Science	Incorporating Linear Temporal Logic into Time-Independent Scheduling Systems	18-097
Mercan, Oya	Civil Engg	A Comparison between Code Definition and Wind Tunnel Testing for Wind Loading on Building	16-115
Mercan, Oya	Civil Engg	Application of Yu's Model in the Analysis of multi-degree of freedom structures with tuned liquid dampers	13-129
Mercan, Oya	CIVIL	Modelling Seismic Drift on a New Vertical Post-Tensioned Connection in Modular Steel Buildings	17-104
Mercan, Oya	Civil Engg	Non-Linear Static Analysis of Post-Tensioned Seismic-Resistant Connections for Modular Steel Frames	15-094
Mercan, Oya	Civil Engg	Opensees Modelling of Gyro-Mass Dampers	15-095
Metcalfe, Murray	MIE	Centralized v.s. Decentralized Generation in Zambia: Meeting Electricity Demand in the Context of Climate Change	17-105
Metcalfe, Murray	Centre for Global Engineering	Data Analytics in Global Development: Cases in Observations from East Africa	18-098
Mihailidis, Alex	IBBME	Design and Development of an Electronic Post-it Note Device for people with Dimentia	15-096
Mihailidis, Alex	IBBME	Pain recognition in video sequences using neural networks	18-099
Mihailidis, Alex	IBBME	Pilot Study: Design and Usability of a Biofeedback System using the KINECT for Stroke Rehabilitaion	16-116

Professor	Department	Thesis Title	Thesis #
Milkereit, Bernd	Physics Dept.	Gas Hydrate Concentration Revisited: How much is really there?	12-090
Miller, Dwayne	Chemistry	Redesigning a photo-triggered streak camera for improved temporal resolution of electron pulse characterization in femtosecond electron diffraction	14-088
Miller, E. J.	Civil Engg	Evaluating Pedestrian Environment and its Impact on Mode Choice	13-130
Miller, Eric	Civil Engg	Development of two stage Collinear Optical Parametric	12-091
Miller, Eric	Civil Engg	The Integrated Land Use, Transportation, Environment (ILUTE) Model System: Demographic and Labour Force Updating	12-092
Miller, Eric	Civil Engg	The Preliminary Design and Development of a Transportation Simulation Model using Oasys Mass Motion	12-093
Miller, Eric	Civil Engg	University of Toronto Student Travel Patterns	16-117
Miller, Eric	Civil Engineering	Understanding and Modelling Passenger-Based Travel Modes	18-100
Miller, Eric	Civil Engineering	Comparing Higher Order Public Transit Options in Scarborough	18-149
Miller, Renee	Comp Sci	Building a Data Set Search Engine Using MinHash and Locality Sensitive Hashing	16-118
Miller, Renee	Comp Sci	Corpbase - publishing financial reports as linked data	14-089
Miller, Renee	Comp Sci	Designing a User Application for LSH Ensemble in Internet Domain Search	17-106
Miller, Renee	Comp Sci	Table Extraction of Open Datasets	16-119
Miller, Renee	Comp Sci	The Locality Sensitive Hash Technique and Locality Sensitive Hashing Forest Techniques for the Top K Nearest Neighbours Search Problem	16-120
Mojahedi, Mo	ECE	Building and Designing a Kretschmann Configuration for Biosensing	18-101
Moldoveanu	Rotman	Algorithms for Organizational Problems	13-131
Moldoveanu	Rotman	Connecting Risky Driving Behavior to Individual Travel Demand	13-132
Morris, Q, Deshwar Amit	CompSci/Donelly	Using Machine learning Algorithms to Analyze Phylogenetic Trees from Turmor DNA Sequencing Data	15-097
Morris, Quaid	Comp Sci	High Expenditure Patient Classification	15-098
Morshead, Cindi	IBBME	Investigation of the effect of two factors in directed migration of neutral Precursor cells in Vitro in response to externally applied electrical fields: substrate and NPC source	12-094

Professor	Department	Thesis Title	Thesis #
Moshovos, Andreas	ECE	Characterization of Bundler: 3D Reconstruction from an Unordered Collection of Photography	13-133
Moshovos, Andreas	ECE	Evaluating the Effects of Branch History Storage Size on Dynamic Branch Prediction Accuracy	17-107
Moshovos, Andreas	ECE	Exploring the Viability and Benefits of FPGA Accelerated Solutions Compared to Software Solutions	14-090
Moshovos, Andreas	ECE	FPGA Implementation of a Reduced - Precision Convolutional Neural Network Hardware Accelerator	17-108
Moshovos, Andreas	ECE	Predictor Virtualization	17-109
Moshovos, Andreas	ECE	Neural network pruning	18-102
Moshovos, Andreas	ECE	Examination of value-based properties of Recurrent Neural Networks for hardware acceleration	18-103
Moshovos, Andreas	ECE	Analysis of the Effectiveness of Various Instruction Prefetching Techniques with Select Workloads	16-121
Moshovos, Andreas	ECE	Analysis of the Spatial Memory Streaming Hardware Prefetching Mechanism	16-122
Moshovos, Andreas	ECE	Buildings an FPGA Accelerator for Deep Neural Network Using AXI and DMA	16-123
Moshovos, Andreas	ECE	Cache Coherence in a Fused System	16-124
Moshovos, Andreas	ECE	GL-TAGE-SC-L Branch Predictor: Global and Local History Indexing for TAGE-based Branch Predictors	16-125
Moshovos, Andreas	ECE	Identifying Inefficiency: An investigation of Modern Hardware Prefetching Methods	16-126
Nagai, M. / Fernie, G	IBBME / Surgery	Development of Practical Evaluation Tool for the effectiveness of Cervical Spine Collar during Patient Ambulance Transport	12-095
Naguib, Hani	MIE	Conducting Polymer Based Pressure Sensors for Electronic Skin Applications	17-110
Naguib, Hani	MIE / MSE	Development of a nanoparticle-polymer composite electrolyte material for solid-state supercapacitors	15-099
Naguib, Hani	MIE	Electrode and Electrolyte Optimization for Flexible Alkaline Batteries	17-111
Naguib, Hani	MIE	High Performance Electrothermal Actuator with Randomly Oriented Carbon Nanotubes	17-112
Naguib, Hani	MIE	Textile Electrode Design for Flexible Supercapacitors	17-113
Naguib, Hani	MIE	Highly stretchable, large strain, flexible strain sensors with microcrack self-healing capabilities	18-104

Professor	Department	Thesis Title	Thesis #
Naguib, Hani	MIE	Software analysis of oil-soluble polymers in pipeline leak detection sensors	18-105
Naguib, Hani	MIE	Development of a Redox-Active Gel Electrolyte for High-Performance, Thin-Film Supercapacitor Electrodes	16-127
Naguib, Hani	MIE	The Application of Electrospun Polyethylene Terephthalate in Improving Polyaniline Supercapacitor Performance	16-128
Naguid, Hani	MIE	The Design and Fabrication of Poly (vinylidene fluoride) Nanoparticle Composite Based Piezoelectric Energy Harvesters	14-091
Nair, Prasanth	UTIAS	Anchored functional ANOVA decomposition concepts and applications	15-100
Nair, Prasanth	UTIAS	Robust Shape Optimization of NURBS Based Acoustic Reflectors using Stochastic Search Techniques	13-134
Nair, Prasanth	UTIAS	Classification with Active Learning for probabilistic Feasible Region Estimation	18-106
Nair, Prashant	UTIAS	A Greedy Galerkin Projection Scheme for Parameterized Equations	15-101
Nair, Prashant	UTIAS	Accelerating Greedy Radial Basis Function Surrogate Models with Graphics Processing Units	12-096
Nair, Prashant	UTIAS	Dimensionality Reduction and Surrogate Modelling of Deterministic and Stochastic Systems	14-092
Nair, Prashant	UTIAS	Fundamental 2D Heat Transfer Model of an Elastomeric O-ring Seal located between an Axially Oscillating Hollow Shaft and a	13-135
Nair, Prashant	IBBME	Greedy Hermite Surrogate Modeling with Gaussian Radial Basis Functions	12-097
Nair, Prashant	UTIAS	Input and Target Space Warping for Gaussian Process Modeling	13-136
Nair, Prashant	UTIAS	Passive Vibration Supression in 2D Structures via Geometric Optimization	12-098
Nair, Prashant	UTIAS	Surrogate-Based Black-Box Emulator: Enhanding Design Optimization	12-099
Nejat Goldie	MIE	Exploration in Urban Search and Rescue Environments with Robot Teams	13-137
Nejat, Goldie	MIE	Computer Vision: Eating Behaviour Tracking	12-100
Nejat, Goldie	MIE	Implementation of an Automatic 3D Map Merging Algorithm for Multirobot Urban Search and Rescue Missions	17-114
Nejat, Goldie	MIE	Incorporating MAXQ Hierarchical Reinforcement Learning in Robotic Urban Search and Rescue	14-093
Nejat, Goldie	MIE	Real-Time Gestural Recognition in a Real-Time Environment	14-094

Professor	Department	Thesis Title	Thesis #
Nejat, Goldie	MIE	Real-Time Human Gesture Recognition	14-095
Nejat, Goldie	MIE	The Design of a Multimodal Interface for a Clothing Recommendation Robot	17-115
Nejat, Goldie	MIE	Socially-Aware Robotics: Development of Social Norms	18-107
Nejat, Goldie	MIE	Occupancy map merging for multi-robot urban search and rescue	18-108
Nejat, Goldie	MIE	Applying LfD Principles to Social Robotics	16-129
Nejat, Goldie	MIE	Development of Human Detection Algorithm for Socially Assistive Robots using Depth Sensors	16-130
Ng, Wai Tung	ECE	A Study of Control methods for DC-DC Synchronous buck converters	14-096
Ng, Wai Tung	ECE	Dynamic voltage/frequency scaling on individual cores on a multi-core processor	14-097
Ng, Wai Tung	ECE	High Switching Frequency DC/DC Voltage Coverter in Smartphone Application	16-132
Ng, Wai Tung	ECE	Single Inductor Multiple Output Buck Converter for Dynamic Voltage and Frequency Scaling	12-101
Nogami, Jun	MSE	Atomically clean Si(001) Surface Preparation in UHV	12-102
Nurul Habib, Khandker	Civil Engg	Activity Location Heuristics: An investigation into urban form	15-102
Nurul Habib, Khandker	Civil Engg	An Investigation of Transport-related exclusion for the At-Risk Community in Toronto	13-138
Nurul Habib, Khandker	Civil Engg	Assessing Social Equity in Potential Distance-Based Transit Fares Using an Econometric Model Estimated for the City of Toronto	16-133
Nurul Habib, Khandker	Civil Engg	Connecting Risky Driving Behavior to Individual Travel Demand	12-103
Nurul Habib, Khandker	Civil Engg	Determining Trip Activity using Location-Based Algorithms and Social Network Databses	13-139
Nurul Habib, Khandker	Civil Engg	Developing a MATSim Auto-Assignment for the National Capital Region (Canada)	13-140
Nurul Habib, Khandker	Civil Engg	Investigating choice making behaviour among transport users: the role of psychology and choice context	15-103
Nurul Habib, Khandker	Civil Engg	Investigating Reverse Commute Trends in the National Capital Region of Canada	13-141
Nurul Habib, Khandker	Civil Engg	Investigating the Choice Set Formation of Trip Activity Purpose Choice for an Activity Based Travel Demand Model	15-104

Professor	Department	Thesis Title	Thesis #
Nurul Habib, Khandker	Civil Engg	Monte Carlo Simulation for Input Vulnerability Test of Travel Demand models	15-105
Nurul Habib, Khandker	Civil Engg	Quantifying Built Environment Impacts on Bicycle Travel Behaviour in the City of Toronto	13-142
Nurul Habib, Khandker	Civil Engg	Quantifying output uncertainties with the bootstrap method	15-106
Nurul Habib, Khandker	Civil Engg	Testing the Assumptions involved in applying Automobile Accessibility models to bicycle travel in Toronto	12-104
Nurul Habib, Khandker	Civil Engg	The Influence of Built Environment on Bicycle Commute Mode Choice	14-098
Nurul Habib, Khandker M.	Civil	Identifying the Factors that Influence Senior Travel Behavior	17-116
O'Reilly, Meaghan	Medical Biophysics	Thermal Properties of Healthy and Pathologic Vertebral Bones Studied by Bulk Measurements and CT-based Thermometry	17-117
Orr, Robert	Physics	Monte Carlo Simulation of a Secondary Emission Calorimeter	15-107
Orr, Robert	Physics	T-Mapping Resistor Testing and Thermometer Production	14-099
Orr, Robert	Physics	Performance Analysis of Silicon Microstrip Sensors for the ATLAS End-cap Detector	18-109
Ozin, Geoff	Chemistry	Heterogeneous Solar-Driven Photo-Thermal Catalytic Reduction of Carbon Dioxide to Methanol using Copper-Coated Silicon Nanowire Systems	15-108
Panesar & Peterson	Civil Engg	The Characterization of Turkish Fly Ashes	14-100
Paradi, Joseph	Chem Engg	A Study on Knowledge Management and Efficiency	12-105
Paradi, Joseph	Chem Engg	Capturing the Benefits of IT Beyond ROI	14-101
Paradi, Joseph	Chem Engg	Leading Key Risk Indicators for Compliance	13-143
Paradi, Joseph	Chem Engg	Operational Risk Measurement for High Impact Low Frequency Events	12-106
Paradi, Joseph	Chem Engg	Remote Worker Effectiveness	13-144
Paradi, Joseph	Chem Engg	RSI and MACD Rule-Based Trading using intraday Data on the S&P 500	14-102
Paradi, Joseph	Chem Engg	Tracking Departmental Metrics	14-103
Paradi, Joseph	Chem Engg	Analyzing Inefficiency Distributions in Data Envelopment Analysis (DEA)	16-134

Professor	Department	Thesis Title	Thesis #
Paradi, Joseph	Chem Engg	Application of the Internet of Things for a Financial Institution	16-135
Paradi, Joseph	Chem Engg	Machine Learning Techniques in Time Series Prediction	16-136
Paradi, Joseph	Chem Engg	Purchase Pattern Prediction suing Sequential Pattern Mining	16-137
Paramekanti, Arun	Physics	Entanglement Dynamics of Spin 1/2 Quantum Systems	12-107
Paramekanti, Arun	Physics	Phase Transitions in the Anisotropic Haldane Model; an Optical Lattice Realization	14-104
Paramekanti, Arun	Physics	The Effects of Interactions and Superconductivity in Such Topological Insulators	15-109
Park, J.K. / Lee, C.G	MIE	Goodwill write-offs by overvalued companies in the late 2000s financial crises: A big bath scenario	12-108
Patrick, Dennis	Music	Sound, Space & Structure: towards a Framework for Sound Specialization & Spatial Composition	13-145
Penn, Gerald	Comp Sci	Spoken Utterance Retrival using Confident-Based Hybrid Indexing	13-146
Penny, Dave	Comp Sci	Big Data Analysis: The Email Tracking Problem	13-147
Perovic, Doug	MSE	The investigation of metal oxide nanomaterials as a photocatalyst for the production of solar fuels - towards a sustainable energy future	13-148
Platanioti, K. N.	ECE	System Identification from Video	16-138
Plataniotis, K. N.	ECE	Towards an Improved Mammographic Mass Detection	13-149
Poon, Joyce	ECE	Characterization of Grating Couplers for Incoherent Sources in the Visible Spectrum	16-053
Poon, Joyce	ECE	Design of Integrated Photonic Tunable Narrow-Linewidth Lasers	14-105
Poon, Joyce	ECE	Design of Optical Phased Array Elements on Silicon-on-Insulator	15-110
Poon, Joyce	ECE	Integrated Quantum Silicon Photonics	14-106
Poon, Joyce	ECE	Photonic Waveguide Decoupling due to gain and loss	12-109
Popovic / Masani	IBBME	Quantifying Ankle Stiffness during standing with and without functional electrical stimulation	13-150
Popovic, Milos	IBBME	Brain-Computer Interface to Predict Specific Arm Reaching Positions	15-111

Professor	Department	Thesis Title	Thesis #
Popovic, Milos	IBBME	Development of an Operant Conditioning-Based Brain-Machine Interface using Single Neuron Activity in a Rat Model	16-139
Popovic, Milos R	IBBME	Integration of a Robotic System and Functional Electrical Stimulation for Upper Limb Rehabilitation	17-119
Prescott, Steven A	IBBME	Using Channelrhodopsin-2/H134R to Non-Invasively Probe Neuron Excitability	17-120
Pressnail, Kim	Civil Engg	Local Climate Normalization for Building Energy Performance Benchmarking using the Kriging Interpolation Methods	15-112
Pressnail, Kim	Civil Engineering	An Analysis of the Energy Costs and Greenhouse Gas Savings of Pre-Cooling Building Thermal Mass during Summer Months in Toronto	18-110
Prodic, Aleksandar	ECE	Design of a Phototherapy Device for the Treatment of Hyperbilirubinemia in Newborns	16-141
Prodic, Aleksandar	ECE	Harvesting Wave Energy on Emergency Life Rafts	17-121
Rabl, T. and Jacobsen, H.A	ECE	Dynamic Population of Materialized Views in Key-Value Stores	15-114
Radisic, Milica	Chem Engg	A novel high-throughput platform for rapid screening of cell contraction on engineered rat neonatal myocardium	13-150
Radisic, Milica	IBBME	Patterned Elastic Polymer for In Vitro Heart Ventricle Modelling	17-123
Ratto, Matt	Faculty of Information	An Embedded 3d Printable Force Sensor	16-142
Reuber, Becky	Rotman School of Mgmt	Funding Path for Cleantech Startups	16-143
Rocheleau, Joathan and Kilkenny, Dawn	IBBME	Designing Plasma-Membrane Bound Controls for Quantitative Fluorescence Microscopy	17-124
Rocheleau, Jonathan	IBBME	Design of an Islet-on-a-chip Device to Dynamically Measure Oxygen Consumption Rate in Individual Pancreatic Islets	18-111
Rocheleau, Jonathan	IBBME	Development of a FRET-Based Intracellular NADP+Biosensor	13-151
Rocheleau, Jonathan	IBBME	High Throughput Screening of PAS Domain Proteins for Biosensor Development	15-115
Rocheleau, Jonathan	IBBME	Development of a High-Throughput Assay for Intracellular Imaging of homoFRET Sensors	17-125
Rocholeau, Jonathan	IBBME	Investigating Electroporation of Pancreatic Islets in a Microfluidic channel with an aim at improving islet electroporation efficiency	12-110
Romkey, Lisa	Engineering Science	Case Study of Online Discussion Board Use in an Engineering Education Graduate Course	18-112
Romkey, Lisa	Engineering Science	Perception of ethics case study on engineering and machine intelligence	18-113

Professor	Department	Thesis Title	Thesis #
Roorda, Matthew	Civil Engg	Economic Feasibility of Truck-Only Lanes on Urban Arterials	12-111
Roorda, Matthew	Civil Engg	Fully Autonomous Vehicles: Simulating Transportation System Performance and Opterating Scenarious in the Greater Toronto Area	16-144
Roorda, Matthew	Civil Engg	High Occupancy Vehicle Lanes and Social Welfare: Insights through Activity-Based Microsimulation	15-116
Roorda, Matthew	Civil Engg	Improving the 3-Stage Freigh Model for the Greater Torotno area with XTMF	15-117
Roorda, Matthew	Civil Engg	The Potentials of Freight Consolidation for Urban Centres	12-112
Roorda, Matthew	Civil Engg	The Practicality of Applying Operations Research Techniques in a Commerical Vehicle Model	16-145
Roorda, Matthew	Civil Engineering	Modified Clarke-Wright Algorithm Solution to the Time Dependent Vehicle Routing Problem with Time Windows	18-150
Roorda, Matthew J	CIVIL	Identify Characteristics of New Freight Establishments due to Logistics Sprawl in GTHA Using Aerial Images and ArcGIS	17-126
Rose, Jonathan	ECE	A feasibility Study Evaluating the use for Chatbots as a Smoking Cessation Intervention	17-127
Rose, Jonathan	ECE	An Exploration of ConnectTool's Automatic Synthesis of Interconnect	14-107
Rose, Jonathan	ECE	Design of a Low-Power Bluetooth Accelerometer Sensor	14-108
Rose, Jonathan	ECE	Exercise-Oriented Gamification of Physiotherapy	17-128
Rose, Jonathan	ECE	FPGA Dynamic Partial Reconfiguration with Applications in Graphics Processing	14-109
Rose, Jonathan	ECE	Gamifying the Automated Perimeter Test	16-146
Rose, Jonathan	ECE	Motion-Based Interaction between the iPhone and the MAC	12-113
Rose, Jonathan	ECE	MyAnkle Improved	15-118
Rose, Jonathan	ECE	Optimization of the Effectiveness of Smartphones in Fighting Relapse during Smoking Cessation	15-119
Rose, Jonathan	ECE	System Design for Ankle Injury Recovery Process	16-147
Rose, Jonathan	ECE	Using sound to measure distance between mobile devices	15-120
Rose, Jonathan	ECE	A deep learning approach to handwriting gesture recognition on a mobile device	18-114

Professor	Department	Thesis Title	Thesis #
Rosebrock, Adam	Donnely Centre	Minimal Footprint: Microplate Spectrophotometer for Rapic, Continuous Monitoring of Optical Density	14-110
Rosenthal, Jeffery	Department of Statistical Sciences	Markov chain Monte Carlo algorithms and related convergence properties	18-115
Roy, Daniel	Department of Statistical Sciences	Neural Networks for Small and Noisy Datasets	18-116
Rubinstein, John	Biophysics	Investigation of the Structural Mechanism Preventing Proton Translocation	12-114
Ruda H / Nair S.	MSE	Computational Modelling of Superconductivity from First Principles	14-111
Ruda, Harry	MSE	Characterization of ALD-Grown Alumina-InAs Interfaces in Planar and Nanowire Geometries	16-148
Ruda, Harry	MSE	Growth and Characterization of Lead-Oxide Nano-structures on Titanium Substrate, using Electrochemical Methods	12-115
Ruda, Harry and Fernandes, Carlos	MSE	Vapor Phase Growth and Characterization of Si2Te3	17-129
Rudzicz, Frank	Comp Sci	Automatic Detection of Deception in Child-produced Language using Syntactic Features	13-153
Rudzicz, Frank	Comp Sci	Detecting Mental Disorders through Natural Language Methods	17-130
Rudzicz, Frank	Comp Sci	Modelling Alzheimer's Disease and Trouble Indicating Behaviour using Lexical and Acoustic Features	14-112
Rudzicz, Frank	Comp Sci	Processing of Electro-ocular Artifacts Interference in MEG without Reference Ocular Channel using ICA-ANFIS Approach	17-131
Rudzicz, Frank	Comp Sci	Towards Multi-Modal Speech Recognition with EEG Signals	16-149
Rudzicz, Frank	Computer Science	Computer assisted diagnosis of Alzheimer's disease with longitudinal data and hierarchical recurrent neural networks	18-117
Rudziecz, Frank	Comp Sci	Applying a Task Dynamic Model of Speech Production to Dysarthic Speech	15-121
Ryu, William	Physics	Development of a Screening Protocol for Celegans Alpha-Synuclein Mutants using Video Microscopy and Machine Vision	15-122
Sanner, Scott	MIE	Geospatial Prediction of Potential Charitable Donations with Bayesian Data Fusion	17-132
Sanner, Scott	MIE	Piecewise continuous constrained optimization with decision diagrams	18-118
Santerre P. / Kandel R.	IBBME / Medicine	Design, Testing and Modelling of Flow Perfusion Bioreactor for Engineered Construct of Bovine Annulus Fibrosus and Nucleus Pulposus Cells	13-154
Santerre, J Paul	IBBME	Optimized Seeding of Adipose-Derived Stem Cell onto Degradable Polyurethane Scaffolds	17-133

Professor	Department	Thesis Title	Thesis #
Santerre, J. Paul	IBBME	Cell Compatibility of Antimicrobial Scaffolds	15-123
Santerre, Paul	Biomed Systems	Biodegradation of Novel Resins: Restorative Dental Applications	15-124
Santerre, Paul	IBBME	Cytotoxicity Analysis of Novel Antimicrobial Dental Adhesive Resins and their Associated Degradation By-Products	16-150
Santerre, Paul	IBBME	Investigating Material Characteristics and Monocyte Interactions with UV-cured Formulations of Degradable Polar Hydrophobic Ionic Polyurethanexs	15-125
Santerre, Paul	IBBME	Monocyte Response to Absorbed Proteins on Biomaterials	13-155
Santerre, Paul	IBBME	Analysis of the cytotoxicity and mass loss of ReFilx scaffolds undergoing hydrolytic degradation and shelf-life aging	18-119
Santerres, Paul / Battison, Kyle	IBBME	Material Characterization of a Degradable Polar Hydrophobic Ionic Polyurethane for Reduced Monocyte Activation	14-113
Sargent, Edward	ECE	Wavelength-Specific Absorption Enhancement Through Optimization of a Planar Dielectric Microcavity	15-126
Sarris, Costas	ECE	Magnetically Mediate Hyperthermia via a Wireless Power Transfer Approach	16-151
Sarris, Costas	ECE	Optimize Transparent Microwave Circuits of Touch Panel	16-152
Sarris, Costas	ECE	Propagation Modelling in Subway Tunnels Using Machine Learning	18-120
Sarris, Costas	ECE	Using Artificial Neural Network to Track Path Loss Prediction from Ray Tracer in Urban Environments	18-121
Sarris, Costas D.	ECE	Application of Microsoft Kinect Depth Camera in Geometry Data Collection for Channel Modelling	15-127
Sarris, Costas D.	ECE	Computational Modeling of Subwavelength Focusing in Biomedical Applications	13-156
Sarris, Costas D.	ECE	Design of Near-field Antenna Arrays for Wireless Charging of Biomedical Implants	15-128
Sarris, Costas D.	ECE	Efficient FTDT Modelling of Graphene Nanostructures	13-157
Sarris, Costas D.	ECE	Optical configuration for wireless charging systems for biomedical implants	15-129
Sarris, Costas D.	ECE	Uncertainty Quantification of Ray-Tracking Based Wireless Propagation Models with Polynomial Chaos Expansion Based Methods	15-130
Sarris, Costas D.	ECE	Surface Impedance Boundary Conditions for Metals	17-134
Saville B & MacLean H	Chem & Civil	Database and Web Application for Biofuels Life Cycle Assessment	14-114

Professor	Department	Thesis Title	Thesis #
Scardovi, Luca	ECE	Simulation and Analysis of the Stability of Dynamical, Nonlinear Systems in a Plastic Network Structure	17-135
Scardovi, Luca	ECE	Synchronization of LTI multi-agent systems under time-invariant diffusive coupling	15-131
Schlichter, Lyanne C	Department of Neuroscience	Characterization of Sex Difference in Kv1.3 Current in Rat Microglia	17-136
Schoellig, A. P.	UTIAS	A Framework for Real-Time Motion Generation for Aerial Vehicles in Response to Musical Signals	15-132
Schoellig, A. P.	UTIAS	Physically Interactive Flying Robots	14-115
Schoellig, Angela	UTIAS	Ballbot An Autonomous Robotic Platform for Retrieval and Delivery of Tennis Balls	17-137
Schoellig, Angela	UTIAS	A robust Stop Line Tracking algorithm for Autonomous Vehicles	18-122
Schoellig, Angela	UTIAS	Location Searching and Road Path Planning for Autonomous Vehicles with Improved Inersection Considerations	18-123
Schoellig, Angela	UTIAS	Deep Learning for Robust Vision in Realtime Autonomous Driving	18-124
Schoellig, Angela	UTIAS	Robust Systems Design for Autonomous Vehicles	18-125
Schoellig, Angela	UTIAS	Trajectory Planning for Autonomous Vehicles in Structured Urban Environments	18-126
Schoellig, Angela	UTIAS	Lane detection for an autonomous vehicle	18-127
Schoellig, Angela	UTAIS	Development of a Programmable Unmanned Aerial Vehicle for Nuclear Reactor Face Surveying	16-153
Schoellig, Angela	UTAIS	Intel RealSense F200 3D Camera	16-154
Schoellig, Angela	UTAIS	Quadrotor for Payload Transport: Designing Controllor for Quadrotor with Cable-Suspended Payload for Flight Stability and Trajectory Tracking for Firefighting Missions	16-155
Schoellig, Angela	UTAIS	Sensor Fushion and State Estimation for Indorr-Outdoor Flight of an Octocopter	16-156
Schoellig, Angela	UTAIS	Towards Multi-Agent Learning	16-157
Schoellig, Angela	UTAIS	Transformation from Kinematic Point to Unicycle Model in Leader-Follower Formation Problem	16-158
Seco, Luis	Mathematics	Adaptive Optimal Liquidation	12-116
Seco, Luis	Mathematics	Extension of Black-Cox Model for Portfolio Organization	14-116

Professor	Department	Thesis Title	Thesis #
Sefton, Michael	IBBME	3D Printing of Tissues using a Collagen and Alginate Bioink	15-133
Sefton, Michael	IBBME	Creating Reconstituted Pseudo-Islets Using Modular Tissue Engineering	17-138
Sefton, Michael	Chem Engg	In situ Forming Diels-Alder Click Cross Linked Hydrogel with Tailorable Scaffold Biomaterial Performance	13-158
Sefton, Michael	IBBME	Characterizing the Mechanisms of Macrophage Polarization by Methacryclic Acid Polymer	16-159
Seto, Emily	Inst. of Health	A Novel Phone-Based Application for Supported Self-Management of Chronic obstructive Pulmonary Disease (COPD)	14-117
Shalaby, Amer	Civil Engg	Assessing Complete Street Design Alternatives with Microsimulation Model	13-159
Shalaby, Amer	Civil Engg	Capacity Analysis of the Union Station Rail Corridor using Multi-Modal Simulation	16-160
Shalaby, Amer	Civil Engg	Deriving Trip Purpose for Personal GPS Travel Surveys	13-160
Shalaby, Amer	Civil Engg	Development of Hybrid Model for Predicting Next Stop Bus Departure Times	14-118
Shalaby, Amer	Civil Engg	Integrating Local Transit Services into the GO Rail Network in Greater Toronto Area	14-119
Shalaby, Amer	Civil Engg	Investigating the Impacts of Transit Scheduling and Demand on Toronto's Union Station	15-134
Shalaby, Amer	Civil Engg	Investigation of the Relationship between Walk Access Distance to Transit Stops and Individual Travel & Service Characteristics in Toronto	14-120
Shalaby, Amer	Civil Engineering	Impact of King Street Transit Pilot Project - A Survey Based Study for Passenger Experience and Perception	18-128
Shalaby, Amer	Civil Engineering	Developing an Optimization Model for Stop Consolidation in Public Transit	18-151
Sheikholeslami, Ali		10 Gb/s Half Rate Bang-Bang Clock and Data Recovery Using Clock Phase Selection	14-121
Sheikholeslami, Ali	ECE	Detection and Mitigation of Jitter Using Clock and Data Recovery Circuits in Multi-Gigahertz Communication Channels	17-139
Sheikholeslami, Ali	ECE	On the Merits of Object Oriented Transceiver Simulations	18-129
Shoichet, Molly	Chem Engg	Characterization of the Tumor Cell Invasion Mechanism in an in-vitro Breast Cancer Model	14-122
Shoichet, Molly	Chem Engg	Chemical Modification of Hydrogels for On-Demand Protein Release	13-161
Shoichet, Molly	Chem Engg	Nuclear Localization Sequence Peptides for Targeted Delivery	13-162

Professor	Department	Thesis Title	Thesis #
Shoichet, Molly	Chem Engg	Sustained release of therapeutic proteins from biphasic polymeric nanoparticles to the injured spinal cord	13-163
Shoichet, Molly	Chem Engg	The Effect of Core Benzylation on Drug Loading of Self-Assembled Polymeric Micelles	14-123
Shoichet, Molly	IBBME and Chem Eng	Notch activatoin using hydrogels as a cell culture model	18-130
Shoichet, Molly S	IBBME	Characterization of Physical Properties of Biomimetic 3D Hyaluronan-based Hydrogels for Chemotherapeutic Drug Screening	17-140
Shoichet, Molly S	IBBME	Fluorescent Methods to Monitor Colloidal Drug Aggregate Stability	17-141
Shoichet, Molly S	Chem Engg	Investigating a Hyaluronan-based Hydrogels for Controlled Release of Pigment Epithelium-Derived Factor	17-142
Shoichet, Molly S	IBBME	Tuning the Release of Therapeutics from HAMC for Tissue Engineering and Surgical Application	17-143
Siegel, Jeffrey	Civil Engg	Calculating the Runtime of HVAC Systems Using Temperature Data	16-164
Simmons, Craig	MIE	Characterizing the Effects of Matrix Stiffness on Valvular Interstitial Cell Function in 3D Hydrogels	14-124
Simmons, Craig	MIE	Design of a 3D Bioprinter for Complex Tissue Engineering	15-135
Simmons, Craig	MIE	Development of Microfluidic Device for High-Throughput Perfusion of Vascularized Tissues	15-136
Simmons, Craig	MIE	Effect of C-Type Natriuretic Peptide and Transforming Growth Facto-B1 on Proteoglycan Sythesis by Porcine Aortic Valvular	12-117
Simmons, Craig	MIE	Optimizing a Custom-Built 3D Printer to Print Complex Vascularized Tissues	16-165
Simmons, Craig	MIE	Role of FHL2 in ECM stiffness regulated Osteogenesis of Mesenchymal stem cells	12-118
Simmons, Craig	MIE / IBBME	The Effect of Low Frequency Vibrations on the Biomechanical Properties of Xenopus Oocytes	15-137
Simmons, Craig	MIE	The role of FHLs and substrate stiffness on mesenchymal stem cell osteogenic and myofibrogenic differentiation	14-125
Simmons, Craig	MIE	Identifying Biochemical and Mechanical Cues to Maintain Human Embryonic Stem Cell Pluripotency in 3D Culture	16-166
Simmons, Craig A	IBBME	Mechanical Stimulation of Cell-Seeded Hydrogels for Connective Tissue Engineering	17-144
Singh, Chandra Veer	MSE	Atomistic Modelling of Fracture in Polycrystalline Graphene from Grain Boundaries	13-164
Singh, Chandra Veer	MSE	Photocatalyptic Properties of Graphyne Modified TIO2: A DFT Study	14-126

Professor	Department	Thesis Title	Thesis #
Singh, Karan	Comp Sci	Quantifying Deoth Perception in Steroscopic 3D	16-167
Sinton, David	MIE	Fabrication and characterization of silicon nanochannels for hydrocarbon PVT studies	15-138
Sinton, David	MIE	Micromodel Screening of Additives for SAGD at Reservoir Conditions	14-127
Sipe, John	Physics	Computing the Matrix Elements of the Electric Dipole Moment Operator	12-119
Sipe, John	Physics	Modelling Scattering Losses in Integrated Quantum Optics	14-128
Skinner Frances	Physiology Dept	Modelling large neuronal networks with experimental and computational constraint considerations	12-120
Sleep, Brent	Civil Engg	Spatial and Temporal Variability of Oceanic Nutrient Fertilization for Optimal Carbon Sequestration	14-129
Sleep, Brent	Civil Engg	Two Phase Dynamics in Porous Media with Application to Carbon Sequestration	12-121
Sone, Eli	IBBME	Characterizing Zebra Mussel Adhesion Strength: Evaluating the Anti-Fouling Potential of Mirco-Structured Surfaces and Low Adhesion Materials Against Zebra Mussels	16-168
Sone, Eli	IBBME	Analyzing Distribution of Proteins secreted by Quagga Mussels on Substrates with Different Surface Chemistry	18-131
Stanley, Sabine	Physics	A numerical model of planetary dynamos including surface irregularities	15-139
Steeves, Craig	UTIAS	Coating Thickness Study of Nanometal-coated polymer under thermal expansion	14-130
Steeves, Craig	UTIAS	Optimisation and Fabrication of Nanocoated Truss Core Sandwich Beams	13-165
Steeves, Craig	UTIAS	Topology Optimization of Cooling Channels	12-122
Steeves, Craig	UTAIS	Validation of Whippletree Apparatus Models Simulating Uniform Pressure Loading for Composite Sandwich Beams	16-169
Steffan, G.	ECE	Exploring Interconnection networks on FPGAs	13-166
Steffan, Greg	ECE	Designing I/O Handshaking Capabilities for the Octavo Processor Family and Investigating its effects upon Out-of-Order Writeback Potential	13-167
Steinberg, Adam	Physics	Blocked Based Engine Simulator	14-131
Steinberg, Adam	UTIAS	Coating and Testing of YABNG:Dy Thermographic Phosphor in Laser-Induced Phosphorescence Thermometry for Surface Temperature Measurements	15-140
Steinberg, Adam	UTAIS	Design of an Acetone Seeding System for Tracer Planar Laser Induced Fluorescence Measurements of Fuel/Air Mixing	16-170

Professor	Department	Thesis Title	Thesis #
Steinberg, Adam	UTAIS	Dynamics of Non-stationary Thermoacoustic Oscillations in Lean Premixed Aeronautical Gas Turbine Combustors at Elevated Temperatures and Pressures from Multi-kHz Repetition-rate Chemiluminescence Measurements	16-171
Steinberg, Adam	Physics	Flow-flame Interactions in a reacting hydrogen jet in crossflow	13-168
Steinberg, Adam	UTIAS	Measuring Fuel Regression Rate in a Laboratory Scale Hybrid Rocket Motor	17-145
Steinberg, Adam	Physics	Method of Interpretation of Filtered Laser Rayleigh Scattering in Reacting Flows	17-146
Steinberg, Adam	UTAIS	Modelling Cryogenic Jet Trajectories in a Gaseous Crossflow	16-172
Steinberg, Adam	UTIAS	Predicting Liquid Jet Trajectory and Breakup Characteristics in High-Temperature Crossflows	15-141
Steinberg, Adam	UTIAS	Tomographic Reconstruction of Chemiluminescence Fields with Helical Disturbances	14-132
Steinberg, Adam	UTIAS	Detection of oscillation onset during triggering of thermoacoustic instabilities in low emission gas turbine combustors	18-132
Steinberg, Aephraim	Physics	A Stable Laser	12-123
Steinberg, Aephraim	Physics	Improving efficiency of super-resolution quantum metrology using optical centroid measurement	13-169
Steinberg, Aephraim	Physics	Optimization of YAG: Dy Synthesis for high-temperature Thermographic Phosphor Systems	13-170
Steinman, David	MIE	Enhancing Realism of Ultrasound Simulation Phantoms	16-173
Stumm, Michael	ECE	Analyzing the applicability and performance of Machine Learning techniques to the development of a scrabble artificial intelligence agent	18-133
Sullivan, Pierre	MIE	Investigation of Vertical Axis Wind Turbines for use in a High Penetration Renewable Power System for Remote Ontario Communities	16-174
Sun, Yu	MIE	Automating the Kleihauer-Betke Test	13-171
Sun, Yu	MIE	Development of a Portable Impedance Spectroscope	14-133
Sun, Yu	MIE	Development of a Single Cell Impedance Spectometer - Analog Front End	14-134
Sun, Yu	MIE	Learning-based non-invasive selection of single spermatozoa with high DNA integrity for in vitro fertilization	18-134
Sun, Yu	MIE	Constraint Modelling and Expanding the Controllable Region of a Magnetic Microbead System	18-135
Taati, Babak	Comp Sci	Application of Computer Vision and Mechatronics Systems in the Development of an Experimental Treatment of Sleep Apnea	14-135

Professor	Department	Thesis Title	Thesis #
Taati, Babak	Comp Sci	Developing a Visual Feedback System using Kinect to Assist Stroke Patients during GRASP Exercises	16-175
Tate, Joseph	ECE	A study of the implementation of conservation by voltage reduction with the use of a renewable energy source	15-142
Tate, Joseph	ECE	Enhancement of System Stability using Selective Mode Propagation in Island AC Grids with HVDC Interconnections	14-136
Tate, Joseph	ECE	Improving Dynamic Voltage Stability of Renewable Generation Systems with Reactive Power Control	14-137
Tate, Joseph	ECE	Locational dispatch of demand response resources for meeting regulation needs in ontario's electricity system	15-143
Tate, Joseph	ECE	Modelling of Renewable Energy Generation Penetration and its effect on the Grid Reliability and Flexibility	15-144
Tate, Joseph	ECE	Automating investment decision-making within small-scale solar + ESS installations with the purpose of becoming grid neutral	18-136
Tate, Joseph	ECE	The Economic viability of reducing the number of on-load tap-changer transformer operations using peaksaver plus program	14-138
Tate, Zeb	ECE	Adapting Non-Intrusive Load Monitoring to Achieve Real-time Appliance-level Metering in Residential Applications	12-124
Tate, Zeb	ECE	Energy Storage for use in Frequency Regulation Ancillary Services	13-172
Tate, Zeb	ECE	Evaluating the Effects of Time-of-Use Pricing in Ontario on Residents living in Multi-Unit Residential Buildings	13-173
Tate, Zeb	ECE	Evaluation of Time-of-Use Pricing System and Method of Collective Load Control Optimization to Improve Peak Shaving	13-174
Tate, Zeb	ECE	Ground Fault Protection of Ungrounded Medium-Voltage Distribution Network with Doubly-Fed Induction Generator (DFIG) Wind Turbines	14-139
Tate, Zeb	ECE	Improved Impact Assessment of Wind Forecast Errors considering locational correlation	13-175
Tate, Zeb	ECE	Optimal Dispatch of Power Generation for Contingecy Responses	16-176
Tate, Zeb	ECE	Using Distributed Generation Resources to Compensate the Reactive Power Loss during Power Outage	16-177
Tate, Zeb	ECE	Grid topology estimation using DC power flow approximations	18-137
Taylor, J A	ECE	Learning the Signal Response of Thermostatically Controlled Loads	17-147
Taylor, Josh	ECE	Optimizing Electric Grids with a Driverless EV Taxi Service	17-148
Taylor, Joshua	ECE	Consumer Demand Response to Time-of-Use Electricity Pricing Signals	14-140

Professor	Department	Thesis Title	Thesis #
Taylor, Joshua	ECE	Mass Adoption of Electric Vehicle Technology	16-178
Taylor, Joshua	ECE	Optimizing Power Flow with Renewable Variability Using Stochastic Chance-Constrained Optimal Power Flow	16-179
Taylor, Joshua	ECE	Use of Weather Forecast to Predict Energy Demand and Need for Demand Response	14-141
Teuscher, Richard	Physics	Run II Analysis Framework and Initial Validation Studies for H - ZZ* - 4l Analysis	15-145
Thomson, M. J.	MIE	Improvements on a Partially-Coupled Soot Model for Turbulent Kerosene Combustion	15-146
Thywissen, Joseph	Physics	Generation of arbitrary 2D Arrays of Optical Tweezers	18-138
Tizghadam, Ali	ECE	Analysis and Visualization of TTC Service Data	15-147
Tizghadam, Ali	ECE	Traffic Statistics Approximation by Applying Digital Video and Image Processing Techniques	17-149
Tolias, Fotinio	Rotman	Common Factors Affecting Bond Returns	13-176
Tolias, Fotinio	Rotman	Empirical Analysis of Historical basis between the Corporation Index Credit default swap and the Bank credit default swap	12-127
Tran, Honghi	Chem Engg	The Effect of Feedstock Variability on Biomass Combustion	12-128
Tran, Honghi	Chem Engg	A Study of Change in Biomass Density During Combustion	16-180
Trbovich / Easty	IBBME	Preventing Chemotherapy Order Errors: A look into the effectiveness of Clinical Pharmacists	13-177
Trescases, Olivier	ECE	Capacity Fade of Li-Ion Batteries under Dynamic Load	14-142
Trescases, Olivier	ECE	Design and Volume Optimization of an Active Power Decoupling Module for a High Power Density 2kW Inverter	17-150
Trescases, Olivier	ECE	Dynamic Voltage Scaling on Field Programmable Gated Array	15-148
Trescases, Olivier	ECE	Organic Nanogrids for Rural Electrification	14-143
Trescases, Olivier	ECE	Thesis on Design of Switch-Mode Power Converter with Efficient Maximum Power Point Tracking	12-129
Triverio, Piero	ECE	A Study of the Accuracy of a Dissipative FDTD Subgridding Algorithm	17-151
Triverio, Piero	ECE	A new Stable Subgridding Technique for Accelerating the FDTD Simulation of Multiscale Electromagentic Problems	16-181

Professor	Department	Thesis Title	Thesis #
Triverio, Piero	ECE	Method of Moment Approach for Fast Calculation of the Shunt Admittance of Calbes Including the Proximity Effect	16-182
Truong, Kevin	IBBME	Developing a More Efficient Method to Integrate Differentiation Related Promoters with a Fluorescent Marker into U937 Monocyte Cells	16-183
Truong, Khai	Computer Science	Gaze Estimation in 360 Videos	18-139
Truong, Khai N	Comp Sci	Iris Detection Screen Unlocking User Interface	17-152
Tsao, M.S / Zheng, G.	Biophysics	Paclitaxel linked Hight Density Lipoprotein (HDL) mimicking peptide-phospholipid scaffold (HPPS) can specifically target non-small Cell Lung Cancer	12-130
Urtasum, Raquel	Comp Sci	Deep Learning for Semantic Change Detection in Aerial Images	17-153
Urtasum, Raquel	Comp Sci	Improving Semantic Segmentation Accuracy via Additional Data Channels	17-154
Urtasum, Raquel and Kundu, Kaustav and Yang, Bin	Comp Sci	3D Traffic Object Tracking with Hybrid Neural Network Structure in KITTI Platform	17-155
Urtasun R. / Fidler, S.	Comp Sci	Improving state-of-the-art tracking algorithm	15-150
Urtusan, Raquel	Comp Sci	Streamlining the Training of 3D Scene Segmentation Models	16-184
Vanderlinde, Keith	Astronomy & Astrophysics	Multi-band anti-reflective coatings for the SPT-3G lenslet array	15-151
Vecchio, Frank	Civil Engg	Development of Contact Elements for Finite Element Analysis of Composite Structures	16-185
Vecchio, Frank	Civil Engg	Modified Bond Model for Smooth Reinforcement in Concrete	16-186
Veneris, Andreas	ECE	Enhancement to the Property Directed Reachability Algorithm using Lemma Support Graphs	17-156
Veneris, Andreas	ECE	RLT Debug Using Boolean Satisfiability	13-178
Vitkin, I Alex	Medical Biophysics	Monte Carlo Simulation of Polarization-sensitive Second-harmonic Generation in Biological Tissue	17-157
Voinigescu, Sorin	ECE	3d-Computer Simulatin of the High-Frequency Performance of Nanoscale FinFET's/TriGates with Silicon and III-V Channel Mateials	13-179
Voinigescu, Sorin	ECE	Design of a 100 Gigabits per Second Quadrature Phase Shift Keying Wireless Transmitter Operating at 240 GHz	17-158
Voinigescu, Sorin	ECE	Design of a 240 GHz Wideband QPSK Receiver for High Data Rate Communication	17-159
Voinigescu, Sorin	ECE	Simulation of MISFET and TFET Devices	15-152

Professor	Department	Thesis Title	Thesis #
Voinigescu, Sorin	ECE	Simulation of N-Type MOSFET's and tunneling field-effect transistors	15-153
Voinigescu, Sorin	ECE	Simulating FDSOI MOSFETs for Quantum Computing Applications	18-140
Vutha, Amar	Physics	Manipulation of the Phase Space Distribution of Ions in a Penning Trap	17-160
Wallace, James	MIE	Wave Energy Converter Efficiencies in Different Ocean States	16-187
Wei, Jason	Rotman School of Management	Weather derivatives applied to Canadian Construction	18-141
Wheeler, Aaron	Chemistry	Instrumentation and Device Design for Decentralized Surveillance System for Measles and Rubella Powered by Paper-based Digital Microfluidics - A Pilot Study in Refugee Camps in Kenya	16-188
Whyne, Cari	Surgery	A Preclinical Assessment of Lithium to Enhance Fracture Healing	14-144
Whyne, Cari	IBBME	Registration of the Glenoid for Navigated Shoulder Arthroplasty	17-161
Whyne, Margarete	Surgery	The Effects of Mixed Osteolytic/Osteoblsatic Vertebral Metastases and Treatment with Photodynamic therapy on Bone Tissue properties	13-180
Wigdor, Daniel	Comp Sci	A Critical Examination of the Scope of Undo Functionality in Modern Interactive Systems	16-189
Wigdor, Daniel	Comp Sci	A Tool for Visulaization and Navigation Through a Network of Academic Papers	16-190
Wigdor, Daniel	Comp Sci	Designing Pen Interfaces that Adapt to Device Capabilities	13-181
Wigdor, Daniel	Comp Sci	Exploring the Social Impact of Sharing Digital Actions in Public Spaces	15-154
Wigdor, Daniel	Comp Sci	Prompt- A Novel Interaction Method for Life Logging on Mobile Devices using the Expellence Sampling Method	13-182
Wilson, Brian	Medical Biophysics	Design and Validation of a Quantitative Fluorescence-Guided Brain Tissue Biopsy Needle	12-131
Wong, Willy	ECE	Accoustics of Multi-Purpose Performance Halls with No Acoustic Flexibility	13-183
Wong, Willy	ECE	Degenerate Source Separation using Machine Learning to Remove Unwanted Percussive Content from an Audio Mixture	14-145
Wong, Willy	ECE	Exploring the Possibility of Implementing Scale Transformation in Music Melody Recognition	13-184
Wong, Willy	ECE	A generalization of the Kuramoto model for coupled brain activity	18-142
Wright, G. / Anderson	Biophysics	Determining an Appropriate Intravascular Coil Configuration for Characterizing CTO Compliance a Theoretical and Experimental SNR Study	12-132

Professor	Department	Thesis Title	Thesis #
Wright, Graham	Medical Biophysics	Peripheral Arterial Disease Lesion Characterization for Planning Percutaneous Vascular Intervention	16-191
Wright, Graham	Medical Biophysics	Tissue Characterization of Edema and Hemorrhage in Acute Myocardial Infarction Patients using MRI Relaxation Times	16-192
Wu, Dash / Seco, Luis	Mathematics	Hotelling Demand with Network Externaties	13-185
Wu, Shirley	Pharmacy	Development of a Theranostic Nanoparticle for targeting mult-drug resistant breast cancer	12-133
Xia, Kaiwen	Civil Engg	Numerical Modeling of soil Behavior under blast loading	14-146
Yang, Victor	Sunnybrook	Development of a Multimodal Optical Imaging System for Neurosurgical Procedures	17-162
Yano, Masayuki	UTIAS	Uncertainty quantification with Monte Carlo methods in aerodynamic flows	18-143
Yatchew, Adonis	Department of Economics	Analyzing the Effectiveness of Conservation Programs in Ontario	17-163
Yatchew, Adonis	Economics	Ontario's Feed-in-Tariff Program Analysis of PV Solar Feed-in Tariff Rates	12-134
Yatchew, Adonis	Department of Economics	Wind Energy Intermittency, Diversity and Interconnections in Ontario	17-164
Yip, Christopher	IBBME	A Low-Cost Ring-TIRF Module for Free Space Scopes Using Dual Mirror Galvanometers	17-165
Yip, Christopher	IBBME	Development of a non-Fluorescence based Holographic Microscope used to Investigate Surface Bacterial Culture (Biofilm)	16-193
Yip, Christopher	IBBME	Structural Mapping of Molecular Crystal Dynamics and Assembly of (F5BSubPc)	12-135
Yoo, Paul	IBBME	Computational Simulation of Activating the Posterior-Tibial Nerve Using the eTENS Method in the Treatment of Overactuve Bladder	16-194
Yoo, Paul	IBBME	Designing Sensor Feedback in a Transcutaneous Electrical Nerve Simulation Device for Localizing Target Nerves	15-155
Yoo, Paul	IBBME	Modelling Enhanced Transcutaneous Electrical Nerve Stimulation of the Saphenous Nerve	16-195
Yoo, Paul	IBBME	Quantifying the Effect of Epinerium Thickness on Neural Recording: A Computational Modeling Approach	14-147
Yoo, Paul	IBBME	The Design of a Novel Stimulation System for the Treatment of Obstructive Sleep Apnea: A Computational Study	15-156
Yoo, Paul	IBBME	Uni-directionally Propagated Action Potential Generated by Peripheral nerve Electrode	15-157
You, Lidan	IBBME	Analyzing the Effects of Reynolds Number of Flow on Osteocytes during flow	14-148

Professor	Department	Thesis Title	Thesis #
You, Lidan	MIE	Designing a Robust and High Throughput Microfluidic Co-Culture Device	15-158
You, Lidan	Biomed Systems	Invetigation on the Influence of Cyclic Hydraulic Pressure (CHP) and Oscillatory Fluid Shear Stress (OFSS) on Osteocytes Apoptosis and Cytoskeleton	15-159
You, Lidan	IBBME	The Effect of Breat Cancer Derived Cytokines on Osteocytes under Mechanical Loading *In-vitro*	16-197
You, Lidan	IBBME	The Effect of Mechanical Loading on Osteocyte Response to Microdamage in vitro	14-149
Young, Edmond W K	IBBME	Analyzing Endothelial Cell Alignment Dynamic in Confined 2D Microchannels	17-166
Yu, Wei	ECE	Joint User Scheduling, Beamforming and Power Allocation in MIMO-OFDMA Cellular Network	12-136
Yuan, Ding		Automatic Reproduction of Distributed Systen Failures Using Run Time Logs	14-150
Yuan, Ding	ECE	Design and Implementation of Parts of the Symptom-Chaining Method to Scale the Automatic Reproduction of Triggering Events to Distributed System Failures	17-167
Yuan, Ding	ECE	Log Parsing and Matching for Performance Analysis of Distributed Softwar Systems	14-151
Yuan, Ding	ECE	Using Logs to Automate Failure Diagnosis and Reproduction in Distributed Systems	14-152
Yucel, Yeni / Gupta, Neeru	Opthalmology	Optic nerve atrophy detected in cancer and respiratory diseases	14-153
Zandstra, Peter	IBBME	An immobilization platform using streptavidin-biotin interactions on micropatterned surfaces for the differentiation of human pluripoten	15-160
Zandstra, Peter	IBBME	Computationally Predicting Cell-Cell Interaction Networks within Multicellular Systems Using Cene Expression Analysis	17-168
Zandstra, Peter	IBBME	Human Embryonic Stem Cell-Derived Definitive Endoderm CXCR4/CXCL12-Dependent Migration	13-186
Zandstra, Peter	IBBME	Modelling and Characterization of Donor Cell Memory in T-cell Progenitor-Derived Induced Pleuripotent Stem Cells	15-161
Zandstra, Peter	IBBME	The Effect of ECM Composition on Cardiomyocyte Morphology and hESC-CM Microtissue Formation	14-154
Zandstra, Peter	IBBME	Nicotinamide Induces Pancreatic Differentiation Via Metabolic Regulation of Sirtuin Pathway	18-144
Zandstra, Peter	IBBME	Computational optimization and experimental validation of MicoRNA-based hPSC classifier	18-145
Zandstra, Peter	IBBME	Defining Microenvironmental Signals that Maintain Human Thymic Epithelial Cells in a Bioengineered Culture System	16-196
Zariffa, Jose	IBBME	Assessing the Possibility of Using Bottom-Up 2D Pose Estimation for Egocentric Hand Detection in Medical Rehabilitation	18-146

Professor	Department	Thesis Title	Thesis #
Zemel, Richard	Comp Sci	A Joint Object Detection and Image Segmentation Framework	14-155
Zemel, Richard	Comp Sci	A Study on the Effectiveness of using Emojis as Labels for Sentiment Classification with LSTM and Convolutional Neural Network Models	17-169
Zemel, Richard	Comp Sci	Automated tuning of neutral networks: Analysis of Hyperparameters Proposed by the Bayesian Optimization Framework	14-156
Zemel, Richard	Comp Sci	Classification of NBA Play Strategies Using Player Position Data and Recurrent Neural Networks	16-197
Zemel, Richard	Comp Sci	Image-Based Question Answering with Visual Semantic Embeddings	15-162
Zemel, Richard	Comp Sci	Investigating the relation between hippocampal replay and the accuracy of place cell position decoding	15-163
Zemel, Richard	Comp Sci	Multilayer Attention-Guided Visual Question Answering	17-170
Zemel, Richard	Comp Sci	Task Specific Visual Saliency Prediction	14-157
Zemel, Richard	Computer Science	Exploring the Benefits of Active Learning in the Few Shot Learning Setting	18-147
Zemel, Richard + Snell, Jake	Comp Sci	Exploring Inhibition of Return in Recurrent Attention Models	16-198
Zemel, Richard and Eliasmith, Chris	Comp Sci	Benchmarking a Neuro-Biologically inspired adaptive control system	15-164
Zhang K. / Jacobsen, Arno	ECE	PSBench: A Benchmark Framework for Publish/Subscribe Systems	15-165
Zheng, Jinzi and Jaffray, David	IBBME	Magnetic Resonance Imaging based assessment of small molecule release from thermoactivated drug delivery systems	15-166
Zhu, Jianwen	ECE	Evaluation of the Performance of High Efficiency Video Coding (HEVC) on x86 and ARM Processor	17-171
Zilman, Anton	Physics	Coarse Grained Modelling of FG Nucleporins	13-187
Zilman, Anton and Rajji, Tarek	Physics; Psychiatry	Human Behavioral Response Prediction during Working Memory Task via Machine Learning Classification of Electroencephalography	17-172
Zingg, David	UTIAS	A Numerical Investigation of Flow Control for Instabilities in 2D Laminar Flow over flat Plates	13-189
Zingg, David	UTIAS	Aerodynamic Design Beginnning from a Flat Plate	13-190
Zingg, David	UTIAS	Characterization of Generalized Summation-By-Parts Operators Applied to the Eulter Equations	17-173
Zingg, David	UTIAS	Characterizing the Accuracy of Summation-by-Parts Operators for Second-Derivatives	13-191

Professor	Department	Thesis Title	Thesis #
Zingg, David	UTIAS	Comparison and Assessement of Discontinuous Galerkin and Summation-By-Parts Methods for the Discretization of Conservation Laws	14-158
Zingg, David	UTIAS	Development of Aerodynamic Design Strategies for Human-Powered Vehicles and Streamlined land vehicles	14-159
Zingg, David	UTIAS	Investigation of Effect of Dual Consistency on the Accuracy of Second and High-Order Methods	12-137
Zingg, David	UTIAS	Investigation of the Impact of Cruise Mach Number on Fuel Efficiency of Aircraft Through Aerodynamic Shape Optimization	15-167
Zingg, David	UTIAS	Meshing Requirements to Accurately Reproduce Flow over a Cylinder as a function of Reynolds Number	13-192
Zingg, David	UTIAS	Multi-point Multi-objective Unmanned Aerial Vehicle Airfoil Optimization	12-138
Zingg, David	UTIAS	Skew-Symmetric Discretizations of the 1D Euler Equations	14-160
Zingg, David	UTIAS	Study of the Performance of a new Error Estimation Method for Computational Fluid Dynamics	12-139
Zingg, David	UTIAS	Turbulence Modelling and Transition Prediction of 3-Dimensional High-life Devices	17-174
Zuniga-flucker, J. C.	IBBME	Notch Stimulation by a Novel Delta-like-4 Fusion Protein Induces T-Lineage Differentiation in Hematopoietic Stem Cells	13-193