

PHD PHYSICS DEGREES AWARDED IN CANADIAN UNIVERSITIES*

DOCTORATS EN PHYSIQUE DÉCERNÉS PAR LES UNIVERSITÉS CANADIENNES*

DECEMBER 2018 TO DECEMBER 2019 / DÉCEMBRE 2018 À DÉCEMBRE 2019

BROCK UNIVERSITY

OBIED, L., “Infrared Spectroscopy of Ge:Mn Thick Films Prepared by Ion Implantation and Post-annealing”, (D. Crandles), June 2019, now a part-time instructor in the Physics Department at Brock University, ON, Canada.

DALHOUSIE UNIVERSITY

BALDWIN, S., “Structural variation and Enzymatic Susceptibility of Collagen Fibrils Extracted from Native and Overload Tail Tendons”, (L. Kreplak/M. Lee), October 2019, now pursuing a Postdoctoral Fellowship, Dalhousie University, Halifax, NS, Canada.

HAMMER, M., “Inferring Atmospheric Aerosol Properties from Satellite Observations and a Global chemical transport model.”, (R. Martin), October 2019, now pursuing a Postdoctoral Research Associate, Washington University in St. Louis, McKelvey School of Engineering, St. Louis, MO, USA.

MARCH, S. A., “Four-wave mixing Experiments on solution-processed methylammonium lead Iodide (CH₃NH₃PBI₃) perovskite thin films”, (K. Hall), May 2019, now pursuing a Postdoctoral Fellowship, Dalhousie University, Halifax, NS, Canada.

McMASTER UNIVERSITY

ARMSTRONG, N., “The Electrodynamics of Quantum Materials: Quasicrystals, Semimetals, and Poor Metals”, (T. Timusk), November 2019, now a Faculty Member at St. Paul American School Systems, Shanghai, China.

CAI, Y., “Frustrated Magnetism Studies in NaCaNi₂F₇, Er₃Ga₅O₁₂ and ErMgGaO₄”, (G. Luke), November 2019, now pursuing a Postdoctoral Research Scientist at TRIUMF/UBC, Vancouver, BC, Canada.

PLESTID, R., “Quantum Effects in the Hamiltonian Mean Field Model”, (D. O’Dell), November 2019, now a Postdoctoral Fellow at the University of Kentucky, Department of Physics and Astronomy, Lexington, KY 40506, USA.

SCHLIEF, A., “The Antiferromagnetic Quantum Critical Metal: A Nonperturbative Approach”, (S. Lee), November 2019, now pursuing a

Postdoctoral Fellow at Max Planck Institute for Physics of Complex Systems, 01187 Dresden, Germany.

POLYTECHNIQUE MONTRÉAL

BELLEMARE, J., “Fragilisation par hydrogène de l’acier 4340 électroplaque : test non destructifs électromagnétiques et analyses avancées de mesures de spectroscopie à désorption thermique”, (F. Sirois / D.Ménard), December 2019, now searching for employment.

DI MAURO, E., “The Biopigment Eumelanin in the Sustainability Challenge: Interfaces with Metal Electrodes, UV-Absorption Enhancement of Plastics and its Biodegradability”, (C.Santato / F.Cicoira), May 2019.

GUERBOUKA, H., “Enabling Real-Time Terahertz Imaging with Advanced Optics and Computational Imaging”, (M. Skorobogatiy), December 2019, now pursuing a Postdoctoral Fellowship at Brown University, Rhode Island, USA.

HAFEZIAN, S., “Growth Control and Study of Ultrathin Silver Film for Energy-Saving Coatings”, (L.Martini / S.Kéna-Cohen), May 2019.

KILICASLAN, A., “Dépôt de revêtements durs et résistants à l’érosion sur la surface interne de cathodes creuses pour des applications en aérospatiale”, (L.Martini / J.-E.Sapieha), May 2019.

LABERGE, M., “Modeling the tribomechanical properties of multifunctional thin film coatings”, (L.Martini / J.-E.Sapieha), August 2019.

LEBLANC-HOTTE, A., “On-Chip Fabry-Pérot Microcavity for Refractive Index Cytometry and Deformability Characterization of Single Cells”, (Y.-A.Peter / J.-S.Delisle), April 2019, now searching a Postdoctoral Fellowship.

MUSONGELA, M., “Implantation d’un modèle de fuites B1 hétérogène avec la méthode des caractéristiques (MoC)”, (G. Marleau), December 2019, now searching for employment.

QUEEN’S UNIVERSITY

BAUER, J., “Nature or Nurture? Collisionless Evolution of Galactic Disc-Halo Systems”, (L.M. Widrow), November 2019, now a Data

Scientist/Deep Learning Researcher at Strivework, Austin, Texas, USA.

KESZTHELYI, Z., “The Role of Surface Fossil Magnetic Fields on Massive Star Evolution”, (G.A. Wade), November 2019, now pursuing a postdoctoral fellowship at the Anton Pannekoek Institute for Astronomy at the University of Amsterdam, NL, Amsterdam.

LEWIS, C., “Modelling Low-Resolution Galaxies to Predict Next-Generation Telescope Survey Statistics”, (K. Spekkens), November 2019, now a Data Scientist at TELUS Digital, Whitby, ON, Canada.

MUZAR, E., “Photonics Crystal Surface Structures on Gallium Arsenide”, (J.A.H. Stotz), November 2019, now in IT, Private Sector, Toronto, ON, Canada.

NAVAEIPOUR, P., “Nonlinear Response of Monolayer Graphene to THz Frequency Radiation”, (M.M. Dignam), November 2019, now a Computational Physicist at Distributed Compute Labs, Kingston, ON, Canada.

SEIFOORY, H., “The Dynamics of Quantum States of Light in Lossy Coupled-Cavity Systems”, (M.M. Dignam), November 2019, now pursuing a postdoctoral fellowship at the University of Toronto, Toronto, ON, Canada.

SHAHALIZAD, A., “Suppression of the Efficiency Roll-off Characteristics in Solution-processed Lanthanide-base Organic Light-emitting Diodes (OLEDs)”, (J.-M. Nunzi), May 2019, now a Director at Genoptic LED Inc., Calgary, AB, Canada.

SIKORA, J., “On an Emerging Paradigm of Tepid Stars: Assessing the Magnetic Origin of Surprisingly Common Star Spots”, (G.A. Wade), November 2019, pursuing a postdoctoral fellowship at Bishop’s University, Sherbrooke, QC, Canada.

RYERSON UNIVERSITY

BLAHUT, K., “Hepatitis C Virus Modelling In Vitro And In Vivo”, (C. Beauchemin), June 2019, now a Data Engineer at Torstar Corporation, Toronto, ON, Canada.

MOORE, M., “Ultra-High Frequency Photoacoustic Microscopy: From Organelles To Organisms”, (M. Kolios), June 2019, now a Medical Physics

Resident at Grand River Hospital, Kitchener, ON, Canada.

NOSRATI, R., “Development Of An MRI-Based Workflow For Post-Implant Dosimetry Of Prostate Low-Dose-Rate (LDR) Brachytherapy”, (G. Stanisz / A. Pejovic-Milic), October 2019, now a Medical Physics Resident at Harvard Medical School, Boston, MA, USA.

NUSRAT, H., “Quantifying Radiobiological Variation In Cancer Radiotherapy Using Monte Carlo Simulation And Doped Plastic Scintillators”, (A. Sarfehnia / C. Kumaradas), October 2019, now a Medical Physics Resident at Sunnybrook Hospital/University of Toronto Dept. of Radiation Oncology, Toronto, ON, Canada.

PANDYA, A., “Fiber optic SERS probes for remote sensing”, (A. Douplik / C. Kumaradas), June 2019, now a Postdoctoral Research Fellow at Tornado Spectral Systems, Toronto, ON, Canada.

SHASWARY, E., “Frequency-Domain Synthetic Aperture Focusing Techniques for Imaging with Single-Element Focused Transducers”, (J. Tavakkoli / C. Kumaradas), October 2019, now a Postdoctoral Research Fellow at Tornado Spectral Systems, Toronto, ON, Canada.

SIMON FRASER UNIVERSITY

ABRAHAM, R., “Investigations of the deep double donor magnesium in silicon”, (M. Thewalt), June 2019.

FITZPATRICK, M., “Out-of-equilibrium dynamics of the Bose-Hubbard model in the strong coupling regime”, (M. Kennett), October 2019.

GALVEZ, T., “Cosmological and astrophysical observables from field theory in curved backgrounds”, (A. Frolov), October 2019.

NIROOMAND, D., “Spin Transport in an Ultra-cold Trapped Non-condensed 87Rb Gas”, (J. McGuirk), June 2019.

SIYAVASHI, R., “Ceramide and Cholesterol Interactions in Phospholipid Membranes: A 2H NMR Study”, (J. Thewalt), June 2019.

ZUCCA, A., “Cosmological Tests of Fundamental Physics”, (L. Pogosian), October 2019.

TRENT UNIVERSITY

KALLIKRAGAS, D., “Superficial Water Chemistry: Molecular Dynamics Simulations and Flow Reactor Studies”, (I. Svishchev), January 2019, now a Research Assistant at Trent University, Peterborough, ON, Canada.

PORQUEZ, J., “Advanced broadband CARS microscopy based on a supercontinuum-generating

photonic crystal fiber”, (A. Slepkov), September 2019, now a Photonics Engineer at Hyperion Sensors Inc, Markham, ON, Canada.

RASLAN, A., “The Role of Dielectric Screening in SrTiO_3 -Based Interfaces”, (B. Atkinson), January 2019, now a Sessional Instructor, UOIT, Oshawa, ON, Canada & a Teaching Assistant at Trent University, Peterborough, ON, Canada & a Research Assistant at Trent University, Peterborough, ON, Canada.

UNIVERSITY OF ALBERTA

BLANCO BENAVIDES, J., “Internal Alfvén waves as a possible driver for auroral kilometer radiation”, (R. Rankin), June 2019.

DINH, H., “Integrated 4D analysis of an underground blowout”, (M. van der Baan), June 2019

DOOLIN, CALLUM, “Integrated optical and mechanical resonators for evanescent field sensing”, (J. Davis), Dec 2019.

GENTILE, F., “Computer-Aided Drug Design of DNA Repair Inhibitors Targeting the ERCC1-XPF Endonuclease”, (J. Tuszyński), June 2019.

GHARAEI, H., “Physical Models of the Lunar Wake and Data-Model Comparisons”, (R. Marchand), Dec 2019.

HUTCHINSON, J., “Transport and superconductivity in spin-orbit coupled electron systems”, (J. Maciejko), Dec 2019.

JELIC, V., “Imaging Ultrafast Dynamics on the Atomic Scale with a Terahertz Scanning Tunneling Microscope”, (F. Hegmann), June 2019.

KIM, P., “Passive and active cooling of cavity optomechanical torque sensors for magnetometry applications”, (J. Davis), Dec 2019.

MOHAMMED, T., “Electrical Properties of Rocks”, (D. Schmitt), Dec 2019.

NARRETO, M., “Ultrafast Photoluminescence and Photoconductivity Dynamics of Semiconductors”, (F. Hegmann), Dec 2019.

OSUGA, K., “Quantum Gravity: From Black Holes to Matrix Models”, (D. Page), June 2019.

RESENDIZ LIRA, P., “Particle Sensors in Ionospheric Plasma”, (R. Marchand), Dec 2019.

WANG, E., “Multidimensional magnetotelluric studies of the Precambrian Alberta basement”, (M. Unsworth), Dec 2019.

UNIVERSITY OF GUELPH

ARTHUR, Z., “In Situ Synchrotron Radiation Investigation of Charge Compensation and Phase Evolution Mechanisms In $\text{Li}_2\text{FeSiO}_4$

Electrodes”, (D. Jiang), June 2019, now an Associate Scientist, Canadian Light Source, Saskatoon, SK, Canada.

DUNLOP, R., “ β and β -delayed neutron decays of the $N = 82$ isotopes $^{128-130}\text{Cd}$ and ^{131}In studied with GRIFFIN”, (C. Svensson), October 2019, now an Analytics Analyst II - Claims Analytics, The Co-operators, Guelph, ON, Canada.

JIGMEDDORJ, B., “Nuclear Structure of ^{122}Xe Studied via High-Statistics β^+/EC Decay of ^{122}Cs ”, (P. Garrett), June 2019, now a Postdoctoral Researcher, Canadian Nuclear Laboratories, Chalk River, ON, Canada.

UNIVERSITY OF MANITOBA

ANDALIB, T., “Magnetic Fields and Ultracold Neutron Production: Studies Towards the Neutron Electric Dipole Moment Experiment at TRIUMF”, (J. Martin), May 2019.

HYDE, P., “Magnetic Fields and Ultracold Neutron Production: Studies Towards the Neutron Electric Dipole Moment Experiment at TRIUMF” New Methods for Controlling Coupling Effects in Cavity Magnon - Polariton Systems”, (C-M Hu), October 2019.

REBENITSCH, L., “Detecting High Rates of Ultracold Neutrons and Thermal Neutron Production”, (B. Jamieson), February 2019.

SHAKER, F., “Measurement of the Electron Anti - Neutrino Cross - Section on Carbon at the T2K Near Detector”, (B. Jamieson), February 2019.

TEIMOORISICHANI, M., “Geometry Optimization and Evaluation of PET - Inserts of Simultaneous PET / MR Neuroimaging”, (A. Goertzen), October 2019.

ZHOU, L., “Models for Firewall Creation in Massless Scalar Field Theory”, (G. Kunstatter / M. Carrington), February 2019.

UNIVERSITÉ DE MONTRÉAL

BARON, F., “Recherche de compagnons de type Jupiter à très grandes séparations autour d'étoiles jeunes dans le voisinage solaire”, (D. Lafrenière), November 2019, Médiatrice scientifique à l'Observatoire du Mont-Mégantic, Université de Montréal, Montréal, QC, Canada.

BLOUIN, S., “Modélisation des effets de haute densité à la photosphère des naines blanches froides”, (P. Dufour), November 2019, now a Director's Postdoc Fellow at Los Alamos National Laboratory, Los Alamos, New Mexico, USA.

FAVRON, A., “Photo-oxydation et spectroscopie Raman de couches minces de phosphore noir”, (R. Leonelli & R. Martel), May 2019, now currently unemployed.

GENDRON-MARSOLAIS, M.-L., “Observations multi-longueur d’onde d’amas et de groupes de galaxies proches”, (J. Hlavacek-Larrondo), April 2019, now pursuing a Postdoctoral Fellowship at ESO/ALMA at European Southern Observatory Santiago, Chile.

GENEST-BEAULIEU, C., “Analyse et modélisation d’étoiles naines blanches de type DB dans le Sloan Digital Sky Survey et le relevé Gaia”, (P. Bergeron), November 2019, maintenant un Professeur en physique, CEGEP Gérard-Godin, Montréal, QC, Canada.

LALONDE, A., “Etude Monte Carlo de l’impact de la tomodesitométrie multi-énergie sur la précision du calcul de dose en protonthérapie”, (H. Bouchard), July 2019, now Postdoctoral Research Fellow at Harvard Medical School, Boston, MA, USA.

MAHMOUD, S., “Étude numérique de la diffusion des défauts ponctuels dans les alliages de nickel”, (N. Mousseau), July 2019, now a Postdoctorant, Université de Lille, Lille, France.

PLANTE, A., “Searching for Dark Matter with Superheated Liquid Detectors”, (V. Zacek), November 2019, now pursuing a Postdoctoral Fellowship at Polytechnique Montréal, Montréal, QC, Canada.

ROJO, M., “Formation et transport de poussières en plasma magnétisé basse pression”, (J. Margot / R. Clergreaux), April 2019.

ROLLAND, B., “Étude de l’évolution spectrale des étoiles naines blanches riches en hélium et le problème de l’origine de l’hydrogène dans les hybrides de type DBA”, (P. Bergeron / G. Fontaine), November 2019, now a Junior Data Scientist at CANN Forecast, Montreal, QC, Canada.

ROY-GAROFANO, V., “Diagnostiques spectroscopiques de plasmas RF en régime de pulvérisation physique et en présence de générations successives de poussières dans les chimies organosiliciées”, (L. Stafford), April 2019, maintenant un Professeur en physique, CEGEP ST-Laurent, Montréal, QC, Canada.

UNIVERSITÉ D’OTTAWA / UNIVERSITY OF OTTAWA

ALMALKI, S., “Nano-engineering of High Harmonic Generation in Solid State Systems”, (T.Brabec), October 2019, now an Assistant Professor of Physics, Najran University, Saudi Arabia.

BEAMISH, E., “Biomarker Assay Development and Sensing with Solid-State Nanopores”, (M. Godin), October 2019, now Patent Agent Trainee at MERIZZI RAMSBOTTOM & FORSTER.

BOUCHARD, F., “Quantum cryptography beyond qubits”, (E. Karimi), October 2019, now a

Research Associate, National Research Council Canada, Ottawa, ON, Canada.

BRIGGS, K., “Solid-State Nanopores: Fabrication, Application, and Analysis”, (V. Tabard-Cossa), March 2019, now a CEO and co-founder at Northern Nanopore Instruments.

DING, X., “Increasingly complex systems in intense laser fields”, (P.Corkum), December 2018, now a Postdoctoral fellow at the University of Michigan, Ann Arbor, MI, USA.

GAO, S., “Fabrication of tapered dual-core As₂Se₃-PMMA fiber and its applications”, (X. Bao), March 2019, now a Lecturer, Shandong Normal University, Jinan, Shandong province, China.

GUAY, J.-M., “Metal colorization using picosecond laser pulses”, (A.Weck / P. Berini), May 2019, now a Research And Development Scientist at Iridian Spectral Technologies.

KONG, F., “High-order harmonic generation with structured beams”, (P. Corkum), October 2019, now a System Design Engineer, Ciena Canada, Ottawa, ON, Canada.

KUCHAR, J., “How water, ice, and sediment deform the Earth: Novel developments and applications of models of glacial isostatic adjustment”, (G.Milne), December 2018, now working at Statistics Canada, Ottawa, ON, Canada.

MELANSON, A., “Effective stochastic models of neuroscientific data with application to weakly electric fish”, (A. Longtin), May 2019, now a Lecturer in Physics, Université de Moncton, Moncton, NB, Canada.

NESRALLAH, M., “Kerr Nonlinear Instability: Classical and Quantum Optical Theories”, (T.Brabec), October 2019, now a Postdoctoral fellow at University of Ottawa, Ottawa, ON, Canada.

OULD HAMOU, C.A., “Decomposition Mechanism of Lignin Models on Pt(111): Combining Single Crystal Experiments and First-Principles Calculations”, (J.Giorgi), May 2019, now a Senior Scientific project Coordinator at Health Canada, Ottawa, ON, Canada.

SAFARI, A., “Resonant Light-Matter Interaction for Enhanced Control of Exotic Propagation of Light”, (R.Boyd), May 2019, now a Postdoctoral fellow at University of Ottawa, Ottawa, ON, Canada.

SAXENA, B., “Electrostriction in As₂Se₃-PMMA Microtapers”, (X. Bao), December 2019, now a Postdoctoral Fellow at the University of Waterloo, Waterloo, ON, Canada.

UNIVERSITY OF REGINA

BEATTIE, T., “Measurement of the Beam Asymmetry for the eta and eta-prime mesons with the GlueX Experiment”, (Z. Papandreou),

June 2019, now a Postdoctoral Fellow at University of Regina, Regina, SK, Canada.

KOLACEKE, A., “Applications of Synchrotron Radiation Techniques to the Study of Taphonomic Alterations and Preservation in Fossils”, (M. Barbi), March 2019, now a Quantitative Analyst at Bank BNP Paribas, Lisbon, Portugal.

UNIVERSITY OF SASKATCHEWAN

DUNLEA, C., “Magnetic Compression of Compact Tori Experiment and Simulation”, (C. Xiao), Fall 2019, now pursuing a Postdoctoral Fellowship, at Tokamak Energy, United Kingdom.

HUYGHEBAERT, D., “The Ionospheric Continuous-Wave E-Region Bistatic Experimental Auroral Radar (ICEBEAR)”, (G. Hussey), Fall 2019, now pursuing a Postdoctoral Fellowship, Living Planet Fellow, at University of Saskatchewan, Saskatoon, SK, Canada.

RIEGER, L., “Improvements to the Limb Scattering Stratospheric Aerosol Record”, (A.Bourassa / D. Degenstein), Spring 2019, now a Guest Scientist, at Environment and Climate Change Canada, Victoria, BC, Canada.

ROMADANOV, I., “Theoretical and Experimental Studies of Large Scale Modes in Hall Thrusters and Methods of Their Control”, (A. Smolyakov), Spring 2019, now a Postdoctoral Fellowship, at Nova Scotia Health Authority, Halifax, NS, Canada.

SAGE, F., “Aspects of Scalar Field Theory and the Dark Matter Problem”, (R. Dick), Spring 2019, now a Software Developer, at Vendasta Technologies, Saskatoon, SK, Canada.

TAYLOR, B., “A Positive Ion Beamline for Space Qualification of Birefringent Materials”, (A. Bourassa / M.Bradley), Fall 2019, now a Research Engineer, at Honeywell Aerospace, Kanata, ON, Canada.

UNIVERSITÉ DE SHERBROOKE

ACHECHE, S., “Effets des corrélations électroniques et du champ magnétique dans les semi-métaux de Weyl”, (A.-M. Tremblay), Janvier 2019, now a Data Scientist orienté recherche at Thales, Paris, France.

BOUTIN, S., “Ingénierie optimale et signatures micro-ondes de modes de Majorana en physique mésoscopique”, (I. Garate), Juin 2019, now a Postdoctoral Researcher at Microsoft at Santa Barbara, CA, USA.

CAMIRAN-LEMYRE, J., “Ingénierie de systèmes quantiques pour une mise à l’échelle

compatible aux plateformes industrielles de microélectronique”, (M. Pioro-Ladrière), Décembre 2019, now Président of Nord Quantique, Sherbrooke, QC, Canada.

LEGROS, A., “Étude en transport de la phase pseudogap des cuprates supraconducteurs : point critique, limite Planckienne et transformation de la surface de Fermi”, (L. Taillefer / D. Colson), Janvier 2019, now a Postdoctoral Research Scholar at Johns Hopkins University, Baltimore, MD, USA.

RINKEL, P., “Dynamique du réseau dans les semi-métaux de Weyl sous champ magnétique”, (I. Garate), Janvier 2019, now a Machine Learning Researcher at Uncharted Technologies, Paris, France.

ROYER, B., “Photons micro-ondes, mesure et informatique quantique”, (A. Blais), Juin 2019, now a Postdoctoral Researcher at Yale, New Haven, CT, USA.

UNIVERSITY OF TORONTO

BADALI, M., “Extinction, Fixation and Invasion in an Ecological Niche”, (A. Zilman), September 2019, now a High School Science Teacher.

BERGER, P. J., “End-to-end Pipeline Methods for Full-sky 21 cm Cosmology: Application to the CHIME Pathfinder Array”, (J.R. Bond / U.L. Pen), June 2019, now pursuing a Postdoctoral Fellowship at Jet Propulsion Laboratories, Pasadena, CA, USA.

CATUNEANU, A., “Magnetic and topological aspects of spin liquid candidates with strong spin-orbit coupling”, (H.Y. Kee), June 2019, now a R&D Scientist at Dana Incorporated.

CRESSWELL, J. C., “Quantum Information Approaches to Quantum Gravity”, (A.W. Peet), September 2019, now a Machine Learning Scientist at Layer6 AI, Toronto, ON, Canada.

DEMARCO, D., “Searching for the Higgs Boson Produced in Association with a Pair of Top Quarks in Multilepton Final States Using the ATLAS Detector at the LHC”, (R.S. Orr), June 2019, now a Special Projects Officer at Trinity College, University of Toronto, Toronto, ON, Canada.

GALLOWAY, M. N., “Stratospheric Ballooning with SPIDER and BIT”, (C.B. Netterfield), June 2019, now pursuing a Postdoctoral Fellowship at the Institute of Theoretical Astrophysics, University of Oslo, Norway.

GOMES, G., “An Integrative Modelling Approach for Disordered Proteins Using Single-Molecule Fluorescence Spectroscopy”, (C.C. Gradinaru), September 2019, now pursuing a Postdoctoral Fellowship at the University of Toronto, Mississauga, ON, Canada.

GU, C. M., “Course-grained Theory and Simulation of Assemblies of Intrinsically-Disordered Nucleoporins”, (A. Zilman), June 2019, now a Data Scientist at Unity Technologies, Montreal, QC, Canada.

KOLONJARI, F., “An Investigation of the Distribution of Ozone Depleting Substances in the Upper Troposphere and Lower Stratosphere”, (K. A. Walker), June 2019, now a Senior Program Advisor, Environment and Climate Change Canada, BC, Canada.

LAKHLANI, G., “The Structure and Dynamics of the Interstellar Medium in the FIRE Simulations”, (N. Murray), June 2019, now a Risk Manager at Scotia Bank, Toronto, ON, Canada.

LIBLONG, A., “Measurement of the Higgs Boson Produced in Association with a Z Boson and Decaying to WW* with a Leptonic Final State in pp Collisions at $\sqrt{s} = 13\text{TeV}$ with the ATLAS Detector”, (P. Krieger), June 2019, now a Senior Data Scientist at Loblaw Digital, Toronto, ON, Canada.

LIN, C., “Investigating Fine Structures of the Earth’s Interior Based on Spectral-Element Seismic Wave Simulations”, (Q. Liu), June 2019, now looking for employment.

LIU, L., “Chemistry in Action: Making Molecular Movies with Ultrafast Electron Diffraction and Data Science”, (R.J.D. Miller), September 2019, now a Research Scientist at AI and Data, Toronto, ON, Canada.

LUTSCH, E., “The Influence of Biomass Burning on the Arctic Atmosphere”, (K. Strong), September 2019, now pursuing a Postdoctoral Fellowship at the University of Toronto, Toronto, ON, Canada.

MANCHEE, K., “Ultrafast Lasers and Amplifiers based on Yb-doped Gain Materials”, (R.J.D. Miller), June 2019, now an Electro-Optical Designer at L3 WESCAM, Guelph, ON, Canada.

PASCUZZI, V. R., “Looking for Beyond the Standard Model Physics in Dijet-Plus-Lepton Events Collected with the ATLAS Detector”, (P. Krieger), September 2019, now a Postdoctoral research scholar at Berkeley Lab, San Francisco, CA, USA.

RAMOS BENITEZ, J. R., “Tunnelling Time of a Bose-Einstein Condensate”, (A.M. Steinberg), September 2019, now pursuing a Postdoctoral Fellowship at ICFO, Barcelona, Spain.

SHALCHIAN TABRIZI, M. E., “A Convergent Continuum Strong Coupling Expansion for Quantum Mechanics & Quantum Field Theory/String Tensions in Deformed Yang-Mills Theory”, (E. Poppitz), September 2019, now looking for employment.

SONG, X., “Seismic Array Imaging of South-Central Alaska Subduction Zone Based on Teleseismic Body Waves: from Finite-Frequency Tomography to Full-Waveform Inversions”, (Q. Liu), September 2019, now looking for employment.

TSAI, C. A., “Enhancing GPR Surveys by Utilizing Dispersive properties and Phase Information”, (R.R. Ghent), June 2019, now a Data Scientist at Ingram Micro.

VINCENT, T., “Binary Neutron Star Simulations: New Tools and Insights”, (H.P. Pfeiffer), September 2019, now a High-Performance Computing Specialist at Xanadu, Toronto, ON, Canada.

VOVK, A. I., “Coarse Grained Modeling of Intrinsically Disordered Protein Structures and Dynamics”, (A. Zilman), September 2019, now looking for employment.

WEAVER, D., “Water Vapour Measurements in the Canadian High Arctic”, (K. Strong), June 2019, now a Tenure stream Lecturer, University of Toronto, Scarborough, ON, Canada.

ZHANG, X., “Mitigating the Impact of Chemical Transport Model Biases on Top-Down CO ad Nox Emission Estimates Using Multi-Species Chemical Data Assimilation”, (D.B.A. Jones), September 2019, now a Sessional Lecturer at the University of Toronto, Toronto, ON, Canada.

UNIVERSITY OF VICTORIA

BEAULIEU, A., “The Study and Shielding of Electromagnetic Radiation from SuperKEKB Electron and Positron Beam Interactions”, (M. Roney), April 2019, now a Regional Director at LTI Informatique et Génie/Software and Engineering, Montréal, QC, Canada.

BREITKREUTZ, D., “Design and evaluation of a Monte Carlo model of a low-cost kilovoltage x-ray arc therapy system”, (M. Bazalova-Carter), June 2019, now a Medical Physics Resident at Stanford Medicine, Stanford, CA, USA.

JOHNSTONE, C., “Microcomputed Tomography Dosimetry and Image Quality in Preclinical Image-Guided Radiation Therapy”, (M. Bazalova-Carter), April 2019, now a Medical Physics Resident at Princess Margaret Cancer Centre, Toronto, ON, Canada.

LONGO, S., “First Application of CsI(Tl) Pulse Shape Discrimination at an e+e- Collider to Improve Particle Identification at the Belle II Experiment”, (M. Roney), October 2019, now starting a DESY Fellowship in Experimental Particle Physics, Hamburg, Germany.

MAYNARD, E., “Applications of x-ray computed tomography polymer gel dosimetry”, (A. Jirasek / M. Hilts), December 2018, now a Medical Physics Resident at BC Cancer Agency, Victoria, BC, Canada.

UNIVERSITY OF WATERLOO

- BAO, C., “Loop Optimization of Tensor Network Renormalization: Algorithms and Applications”, (N. Turok), October 2019.
- BOGAN, A., “Few Hole Quantum Dots in a Gated GaAs/AlGaAs Heterostructure”, (J. Kycia / S. Studenikin), October 2019.
- CHAMBERLAND, C., “New Methods in Quantum Error Correction and Fault-Tolerant Quantum Computing”, (R. Laflamme), June 2019.
- CORONADO, F., “Constructing Exact Correlators in $N = 4$ SYM Using Integrability”, (P. Vieira / R. Myers), October 2019.
- DI MATTEO, O., “Methods for Parallel Quantum Circuit Synthesis, Fault-Tolerant Quantum RAM, and Quantum State Tomography”, (M. Mosca), June 2019.
- DRAKOS, N., “The Evolution of Dark Matter Haloes in Mergers”, (J. Taylor), October 2019.
- FLANNERY, J., “Optical Resonators Integrated into a Hollow Core Photonic Crystal Fiber for Enhanced Light-Matter Interactions”, (M. Bajcsy), October 2019.
- HAAS, H., “Engineering Effective Hamiltonians for Magnetic Resonance”, (D. Cory), October 2019.
- ISHTIAQUE, N., “On Cohomological Algebras in Supersymmetric Quantum Field Theories”, (J. Gomis), October 2019.
- KARAMI, M., “Probing the Dark Universe with Gravitational Lensing”, (N. Afshordi / A. Broderick), June 2019.
- KATIYAR, H., “Control Techniques in Spin Based Quantum Computation”, (R. Laflamme), October 2019.

- KIEFEROVA, M., “Quantum Algorithmic Techniques for Fault-Tolerant Quantum Computers”, (M. Mosca), October 2019.
- KULCHYTSKYY, B., “Probing Universality with Entanglement Entropy via Quantum Monte Carlo”, (R. Melko), October 2019.
- KUMARI, M., “Quantum-Classical Correspondence and Entanglement in Periodically Driven Spin Systems”, (S. Ghose / R. Mann), October 2019.
- LEE, Y., “Transition Matrix Monte Carlo Methods for Complex Systems”, (D. Yevick), June 2019.
- MACLEAN, J., “Ultrafast Metrology in the Quantum Domain”, (K. Resch), June 2019.
- MARROCHIO, H., “Complexity in the AdS/CFT Correspondence”, (R. Myers), October 2019.
- MBAREK, S., “Explorations of Black Hole Thermodynamics in de Sitter Spacetime”, (R. Mann), June 2019.
- MCCMAHON, C., “Symmetry of the Charge Ordering Phases in Hole-Doped Cuprates Studied by Resonant X-ray Absorption and Scattering”, (D. Hawthorn), October 2019.
- MIZERA, S., “Aspects of Scattering Amplitudes and Moduli Space Localization”, (B. Dittrich) (F. Cachazo), October 2019.
- MOOSAVIAN, S., “Some Applications of Hyperbolic Geometry in String Perturbation Theory”, (D. Gaiotto / J. Gomis), October 2019.
- MORADI, H., “Topological Order and Universal Properties of Gapped Quantum Systems”, (X.G. Wen) (R. Melko), June 2019.
- NG, K., “Sensing the Shape of Spacetime: Detector Response and Entanglement Harvesting in Curved Space”, (R. Mann), June 2019.
- NOURBAKHS, S., “Biophysical Modelling of Antimicrobial Peptide’s Interactions with

Phospholipid and Lipopolysaccharide Membranes”, (B.Y. Ha), October 2019.

- OKOLI, C., “Dark Matter and Neutrinos in the Foggy Universe”, (N. Afshordi / J. Taylor), June 2019.
- POMARANSKI, D., “Precision Low Temperature Calorimetry and Susceptibility of Magnetic Pyrochlores”, (J. Kycia), June 2019.
- RAPCAK, M., “The Vertex Algebra Vertex”, (D. Gaiotto / J. Gomis), October 2019.
- TORLAI, G., “Augmenting Quantum Mechanics with Artificial Intelligence”, (R. Melko), June 2019.
- VANTYGHM, A., “An ALMA View of Molecular Gas in Brightest Cluster Galaxies”, (B. McNamara), June 2019.

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- DECH, J., “Electron Collisions with Atoms and Molecules”, (W. McConkey), June 2019, now a Senior R&D Engineer, Charged Particle Optics Systems at Multibeam Corporation, San Francisco Bay Area, CA, USA.

WESTERN UNIVERSITY

- Pubuditha A., “Calculating the dimensionality of the brain, and other applications of an optimized generalized Ising model in predicting the brain’s spontaneous fluctuations”, (A. Soddu), June 2019, now pursuing a Postdoctoral Fellowship at Monash University, Melbourne, Australia.
- Shayamila M, G., “Development of a 1-dimensional data assimilation to determine temperature and relative humidity combining Raman lidar backscatter measurements and a re-analysis model”, (R. J. Sica), October 2019, now pursuing a Postdoctoral Fellowship at Université de Montréal, QC, Canada.