

# PHD PHYSICS DEGREES AWARDED IN CANADIAN UNIVERSITIES\*

## DOCTORATS EN PHYSIQUE DÉCERNÉS PAR LES UNIVERSITÉS CANADIENNES\*

DECEMBER 2016 TO DECEMBER 2017 / DÉCEMBRE 2016 À DÉCEMBRE 2017

### BROCK UNIVERSITY

PRZEBORSKI, M., “Nonlinear dynamics of granular assemblies”, (T. Harroun), October 2017, now pursuing a Postdoctoral Fellowship at the University of Waterloo, Waterloo, ON, Canada.

### CARLETON UNIVERSITY

CREE, G., “Direct Measurement of the Higgs Boson Mass, Natural Width, and Cross Section Times Branching Ratio to Four Leptons Using a Per-Event Line shape in the Higgs to ZZ to Four Lepton Decay Channel with the ATLAS Detector”, (T. Koffas), June 2017.

HUNTER, C., “A Study of the Prevalence of Patient Body Motion and Its Subsequent Correction by Projection Consistency Conditions”, (R. deKemp), June 2017.

### CONCORDIA UNIVERSITY

HASSANPOUR, A., “Controlled Hydrothermal Growth of ZnO Nanorods Arrays: Selective Growth and Cation Doping”, (P. Bianucci), May 2017, now pursuing a MITACS Elevate Postdoctoral Fellowship at Institut National de la Recherche Scientifique in Québec, QC, Canada.

### DALHOUSIE UNIVERSITY

NELSON, K., “Studies of the Effects of High Voltage on the Performance and Impedance of Lithium-Ion Batteries”, (J. Dahn), September 2017, now pursuing a Postdoctoral Fellowship at Dalhousie University, Halifax, NS, Canada.

PARSONS, D., “Volume of Interest Imaging for Image Guided Radiotherapy”, (J. Robar), September 2017, now completing a 3-year residency training program in radiation oncology medical physics at the University of Texas Southwestern Medical Center, Dallas, Texas, USA.

PERRO, C., “Satellite Retrievals of Total Column Water Vapor and Surface Emissivity During Arctic Winter”, (T. Duck), September 2017, now

pursuing a Postdoctoral Fellowship at Dalhousie University, Halifax, NS, Canada.

POEHLS, J., “Ultralow Thermal Conductivity and Novel Thermoelectric Materials”, (M.A. White), September 2017, now pursuing a Postdoctoral Fellowship at the University of Alberta, Edmonton, AB, Canada.

SUN, J.P., “Organic Photovoltaics: Integrating Non-Fullerene Acceptors into Solution-Processed Devices”, (I. Hill), September 2017, now pursuing a Postdoctoral Fellowship at Duke University, Durham, North Carolina, USA.

### ÉCOLE POLYTECHNIQUE DE MONTRÉAL

BLANCHAND-DIONNE, A.-P., “Propriétés optiques de nano-trous périodiques dans une couche mince métallique: modélisation, fabrication et application comme biocapteur”, (M. Meunier), October 2017, now a Research Associate at Laboratoire de MicroFabrication (LMF), Polytechnique Montréal, Montréal, QC, Canada.

DUBOIS, M.-A., “Simulation intrusive dynamique d'imagerie à effet tunnel”, (A. Rochefort, X. Bouju), June 2017, now a senior software developer at CaSa Appareils connectés, BÉloeil, QC, Canada.

HIDOUCHE, Akila, “Étude des écoulements critiques (bloqués) pour des fluides aux états sous et sur critiques”, (A. Teysseydoy), December 2017, now searching for employment.

HOUSSEINEY MILANY, S. R., “Development of a Hybrid Deterministic - Stochastic Method for full Core Neutronics”, (G. Marleau), May 2017, now an Engineer Analyst at AmecFW, Toronto, ON, Canada.

LAJOIE, M.-A., “Développement d'un schéma de calcul prismatique généralisé parallèle en transport déterministe hétérogène 3-D”, (G. Marleau, F. Fevotte), September 2017, now a Data scientist at National Bank of Canada, Toronto, ON, Canada.

LAPOINTE, J., “Fonctionnalisation des écrans de téléphones mobiles: des premiers dispositifs invisibles à l'amélioration de l'écriture par laser”, (R. Kashyap), October 2017, now a Scientific Coordinator at Sentinel North and a Research Scientist at Centre d'optique, photonique et laser (COPL), at Université Laval, Québec, QC, Canada.

LI, J., “Hollow Core Photonic Bragg Fibers for Industrial Sensing Applications”, (M.A. Skorobogatiy), March 2017, now pursuing a Postdoctoral Fellowship at Electrical and Computer Engineering Department at the University of British Columbia, Vancouver, BC, Canada.

LOQUAI, S., “Durable Thermochromic V02 Films Deposited by Hipims”, (L. Martinu, J. Klemberg-Sapieha), April 2017, now pursuing a Postdoctoral Fellowship at Polytechnique Montréal, Montréal, QC, Canada.

MA, T., “Practical Terahertz Waveguides for Advances Light Management”, (M.A. Skorobogatiy), April 2017.

MENG, X., “Electrolyte-Gated Tungsten Oxide Transistors: Fabrication, Working Mechanism, Device Performance”, (C. Santato), September 2017, now searching for employment.

MUKHERJEE, S., “Isotope Engineering and Lattice Disorder in Group IV Nanoscale and Quantum Semiconductors”, (O. Moutanabbir), September 2017, now pursuing a Postdoctoral Fellowship at Polytechnique Montréal, Montréal, QC, Canada.

RAOUAFI, H., “Simulation de mécanismes de contrôle de la réactivité inclinés du réacteur SCWR-canadien en utilisant les codes DRAGON5 et DONJON3”, (G. Marleau), May 2017, now searching for employment.

ROOHI NOOZADI, A.A., “Forward and Inverse Modelling of Magnetic Induction Tomography (MIT) for Biomedical Application”, (A. Yelon, D. Ménard), June 2017, now pursuing an Industrial Postdoctoral Fellowship at Ubisoft, Montréal, QC, Canada.

### MCGILL UNIVERSITY

AL TAMIMI, W., “Collinear laser spectroscopy on exotic isotopes of rubidium and gallium”, (F. Buchinger, J. Crawford), May 2017, now a Full-time Lecturer at University of Jordan, Amman, Jordan.

ALONSO ORTIZ, E., “Gradient echo-based quantitative myelin water imaging”, (I. Levesque, G. Pike), May 2017, now a Medical Physics Resident at The Ottawa Hospital, Ottawa, ON, Canada.

ARCHIBALD, R., “X-ray timing of young pulsars”, (V. Kaspi), October 2017, now pursuing a Postdoctoral Fellowship at University of Toronto, Toronto, ON, Canada.

\*This list includes all information submitted to the CAP office up to 21 January, 2018.

\*La liste comprend l'information reçue au bureau de l'ACP jusqu'au 21 janvier 2018.

- BAZRAFESHAN MOGHADDAM, H., “Reheating in early universe cosmology”, (R. Brandenberger), October 2017, now pursuing a Postdoctoral Fellowship at Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.
- BOHLOUL, S., “First-principles quantum transport and linear response modeling of nano-devices and materials”, (H. Guo), October 2017, now a Research Scientist/Scientific Software Developer at NanoAcademic Technologies, Brossard, QC, Canada.
- BONAVENTURA, N., “A multiwavelength exploration of unexpected star formation activity in SpARCS brightest cluster galaxies”, (T. Webb), October 2017, now a James Webb Space Telescope (JWST) Postdoctoral Researcher at Cosmics Dawn Center (DAWN), Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark.
- BORCHMANN, J., “Entanglement and disorder in gapped and gapless topological states”, (T. Pereg-Barnea), February 2017, now a Data Scientist at CapitalI, Toronto, ON, Canada.
- CÉSAR, M., “Ab initio study of disordered nanoelectronic devices: copper interconnects and group-III nitrides”, (H. Guo), October 2017, now pursuing a Postdoctoral Fellowship at French Alternative Energies and Atomic Energy Commission (CEA), Saclay, France.
- D’ANJOU, B., “Optimization of real-world qubit measurements”, (W. Coish), October 2017, now pursuing a Postdoctoral Fellowship at University of Konstanz, Konstanz, Baden-Württemberg, Germany.
- DUPUIS, G., “Model-dependent collider signatures of particle dark matter”, (J. Cline), February 2017.
- GOUVÊA MAURICIO FERREIRA, E., “Early universe cosmology and dark energy: from the Big Bang to the late expansion of the universe”, (R. Brandenberger), October 2017, now a Research Associate at McGill University, Montreal, QC, Canada.
- MANTIFEL, R., “Measurement of the production cross section of jets in association with a Z boson in 8 TeV proton-proton collisions with the ATLAS detector”, (F. Corrivéau), May 2017.
- MARKEL, D., “Simultaneous registration and segmentation coupling using the Jensen Rényi divergence for adaptive radiotherapy”, (I. El Naqa), February 2017, now a Physics Resident at Princess Margaret Hospital, Toronto, ON, Canada.
- MCDONOUGH, E., “High energy physics and the early universe”, (R. Brandenberger, K. Dasgupta), October 2017, now pursuing a Postdoctoral Research Fellowship at Brown University, Providence, Rhode Island, USA.
- PATER, P., “Numerical Models for radiation-induced DNA damage”, (J. Seuntjens, I. El Naqa), February 2017, now a Medical Physicist at Cedar’s Cancer Center - McGill University Health Center, Montreal, QC, Canada.
- RENAUD, J., “On the development of absorbed dose calorimeter systems for absolute clinical dosimetry”, (J. Seuntjens, A. Sarfehnia), February 2017, now pursuing a Postdoctoral Fellowship at McGill University, Montreal, QC, Canada.
- ROEBBER, E., “Characterizing the nanohertz gravitational wave background produced by a cosmological population of binary supermassive black holes”, (G. Holder, V. Kaspi), October 2017, now pursuing a Postdoctoral Prize Fellowship at Institute of Gravitational Wave Astronomy, University of Birmingham, Birmingham, United Kingdom.
- ROY-GOBEIL, A., “Single-electron charging using atomic force microscopy”, (P. Grütter), February 2017, now pursuing a Postdoctoral Fellowship at McGill University, Montreal, QC, Canada.
- SCHOLZ, P., “Single-electron charging using atomic force microscopy Observations of magnetars: from outburst to quiescence Single-electron charging using atomic force microscopy”, (V. Kaspi), February 2017, now pursuing a Postdoctoral Fellowship at National Research Council, Penticton, British Columbia, Canada.
- YU, V., “Breakdown of the quantum hall effect in InGaAs/InP quantum wells”, (M. Hilke, D. Austing), October 2017.
- ZHANG, Y., “Nanofluidic coupled membrane devices for single molecule sensing and imaging”, (W. Reisner), October 2017, now pursuing a Postdoctoral Fellowship at McGill University, Montreal, QC, Canada.
- August 2017, now pursuing a Postdoctoral Fellowship at McMaster University, Hamilton, ON, Canada.
- JOSHI, G., “Mass Loss and Preprocessing of Galaxies Traversing Group Environments”, (L. Parker, J. Wadsley), September 2017, now pursuing a Postdoctoral Fellowship at the Max Planck Institute for Astronomy, Heidelberg, Germany.
- KELLER, B., “Super bubble Feedback in Galaxy Formation & Evolution”, (J. Wadsley), January 2017, now pursuing a Postdoctoral Fellowship at the Astronomers Rechen-Institut, Heidelberg, Germany.
- LUNTS, R., “Low Energy Behavior of the Antiferromagnetic Quantum Critical Metal”, (S. Lee), August 2017, now pursuing a Postdoctoral Fellowship at Flatiron Institute, New York, NY, USA.
- MILADINOVIC, N., “The Abraham-Minkowski Controversy and the He-McKellar-Wilkins Phase”, (D. O’Dell), December 2016, now a Programmer at Preteck, Memphis, Tennessee, USA.
- MOK, A., “The Effects of Environment on the Atomic and Molecular Gas Properties of Star-Forming Galaxies”, (C. Wilson), July 2017, now pursuing a Postdoctoral Fellowship at the University of Toledo, Toledo, Ohio, USA.
- MUMFORD, J., “Singularities in a BEC in a Double Well Potential”, (D. O’Dell), May 2017, now pursuing a Postdoctoral Fellowship at Jagiellonian University, Krakow, Poland.
- MUNSIE, T., “Synthesis and Characterization of Constrained Magnetism in Niobates”, (G. Luke), June 2017, now a Scientist at the National Defence, Edmonton, AB, Canada.

## McMASTER UNIVERSITY

- ALSO, R., “Pharmaceuticals and Physics: Studies of Drug-Membrane Interactions Using Advanced X-ray and Neutron Scattering Techniques”, (M. Rheinstadter), August 2017, now an Analyst at PwC, Toronto, ON, Canada.
- CRIDLAND, A., “Connecting the Chemical Composition of Planetary Atmospheres with Planet Formation”, (R. Pudritz), August 2017, now pursuing a Postdoctoral Fellowship at the Leiden University, Leiden, Netherlands.
- EADIE, G., “Lights in Dark Places: Inferring the Milky Way Mass Profile using Galactic Satellites and Hierarchical Bayes”, (W. Harris), July 2017, now pursuing a Postdoctoral Fellow at the University of Washington, Seattle, Washington, USA.
- HALLAS, A., “Application of Chemical Pressure to Magnetically Frustrated Pyrochlores”, (G. Luke), August 2017, now pursuing a Postdoctoral Fellowship at the Rice University, Houston, Texas, USA.
- HOWARD, C., “The Effects of Radiative Feedback on Star Cluster Formation and the Galactic Interstellar Medium”, (R. Pudritz, W. Harris),

## MEMORIAL UNIVERSITY

- LeBLANC, M., “Magnetic Order in the FCC Kagome Antiferromagnet”, (J. Whitehead, M. Plumer), June 2017, now a Part-Time Research Assistant at the Department of Physics and Physical Oceanography, Memorial University, St. John’s, NL, Canada.
- LeMORZADEC, K., “Scaling Issues in Glaciology: Addressing Subgrid Topography”, (L. Tarasov), June 2017, now a Project Manager with Open Groupe, France.
- ZHANG, Y., “Waves and Eddies on a  $\beta$  Plane: Experiments with Altimetry”, (I. Afanassiev), June 2017, now an Assistant Professor at Guangdong Ocean University, China.

## QUEEN’S UNIVERSITY

- ALTAL, F., “Scanning Optical Imaging and Stress Tests of Polymer Light-Emitting Electrochemical Cells”, (J. Gao), April 2017, now pursuing a

Postdoctoral Fellowship at Queen's University, Kingston, ON, Canada.

AMOLE, C., "The Pico-2L Program: A Giant Leap Towards Background-Free Matter Direct Detection Using Bubble Chamber", (A.J. Noble), November 2017, now pursuing a Postdoctoral Fellowship at the University of Zurich, Zurich, Switzerland.

BOBBARA, S., "Effect of Encapsulation and Light-soak on Charge Transport Properties of Organic Semiconductor-based Diodes", (J.-M. Nunzi), November 2017, now pursuing a Postdoctoral Fellowship at Queen's University, Kingston, ON, Canada.

GIAMPA, P., "Identification and Reduction of the Alpha Background, From 238U and 232Th Decay Chains, in the DEAP-3600 Experiment", (M.G. Boulay), November 2017, now a Physicist at TRIUMF, Vancouver, BC, Canada.

MANN, N., "Theoretical and computational studies of disorder-induced scattering and nonlinear optical interactions in slow-light photonic crystal waveguide", (S. Hughes), April 2017, now a Data Scientist at automotiveMastermind Inc. New York, NY, USA.

OUELLETTE, N., "The SHIVir Survey: A Dynamical Catalogue of Virgo Cluster Galaxies and their Scaling Relations", (S. Courteau), April 2017, now an Education and Outreach Officer at the Canadian Particle Astrophysics Research Centre, Queen's University, Kingston, ON, Canada.

SIMPSON, E., "CMOS-Integrated Transducer Arrays for High-Frequency Ultrasonic Imaging", (M.M. Dignam, J. Brown), November 2017, now a Senior Research Engineer at Siemens Healthineers, Seattle, WA, USA.

## ROYAL MILITARY COLLEGE OF CANADA

EARL, MICHAEL A., "Photometric Analyses and Preliminary Attitude Estimation of Inactive Box-Wing Geosynchronous Satellites", (G.A. Wade), June 2018, now a research associate at the University of Saskatchewan, Saskatoon, SK, Canada.

## RYERSON UNIVERSITY

DA SILVA, E., "A Hydroxyapatite Phantom Material for the Calibration of In Vivo X-Ray Fluorescence Systems of Bone Strontium and Lead Quantification", (A. Pejovic-Milic), June 2017, now an Assistant Professor at the Department of Physics, Ryerson University, Toronto, ON, Canada and a Medical Physics Resident at Odette Cancer Centre - Sunnybrook Hospital, Toronto, ON, Canada.

DAVLETSHIN, Y., "A Computational Analysis of Nanoparticle-Mediated Optical Breakdown",

(C. Kumaradas), June 2017, now pursuing a Postdoctoral Fellowship at Studio1Labs, Toronto, ON, Canada.

JAKUBOVIC, R., "Feasibility of Radiation Dose Planning Guided Surgical Resection in Spinal Tumors", (V. Yang, A. Pejovic-Milic), October 2017, now a Medical Physics Resident at Northwell Health, New York, New York, USA.

LIAO, L., "Mathematical Models of Influenza A Virus Infections In Vitro: Investigating Defective Interfering Particles and Virus Release", (C. Beauchemin), October 2017, now a Postdoctoral Research Associate at Los Alamos National Laboratory, Los Alamos, New Mexico, USA.

## SIMON FRASER UNIVERSITY

CHU, R., "Design and Fabrication of Nanoscale Bismuth Hall Probes", (D. Broun), December 2016.

DARBANDI, A., "Growth, characterization, and fabrication of GaAs core/shell and axial nanowire devices", (S. Watkins), December 2016.

GAVRILOV, M., "Experiments on the thermodynamics of information processing", (J. Bechhoefer), December 2016.

REZAEI, N., "Mechanical Studies of Single Collagen Molecules Using Imaging and Force Spectroscopy", (N. Forde), December 2016.

TRUNCIK, C., "Precision microwave spectroscopy of the heavy fermion superconductor CeCoIn5", (D. Broun), December 2016.

MOHAMMADBEIGI, F., "Optical characterization of doped zinc oxide nanowires", (S. Watkins), April 2017.

VAN NIEUWKOOP, K., "Evidence for the Production of the Standard Model Higgs Boson Produced via Vector Boson Fusion in the WW\* Channel at the ATLAS Detector", (B. Stelzer), April 2017.

## UNIVERSITÉ DE MONTRÉAL

AL MAKDESSI, G., "Formation de poudres carbonées dans un plasma de haute fréquence produit à très basse pression dans des mélanges acétylène-argon", (J. Margot), septembre 2017, maintenant un Physicien médical à CUSM-Glen, Montréal, QC, Canada.

LAURIN, M., "Recherche de la matière sombre à l'aide de détecteurs à liquides surchauffés dans le cadre de l'expérience PICO/Picasso", (V. Zacek), mars 2017, maintenant un Agent de recherche pour l'Université de Montréal, avec le groupe PICO, Montréal, QC, Canada.

LEVASSEUR, O., "Étude de la dynamique de croissance de revêtements nanostructurés multifonctionnels sur le bois par plasmas froids à la pression atmosphérique", (L. Stafford, N. Gherardi), mars 2017, maintenant un Professeur au

CEGEP Édouard-Montpetit, Longueuil, QC, Canada.

PROFILI, J., "Dépôt de couches minces nanocomposites par nébulisation d'une suspension colloïdale dans une décharge de Townsend à la pression atmosphérique", (L. Stafford, N. Gherardi), mars 2017, maintenant suit une bourse Postdoctorale à l'Université de Montréal, Montréal, QC, Canada.

SHOALEH SAADI, D., "Search for Heavy Gluons from Composite Higgs Model through Vector-Like Top Quark Decay Topologies with the Atlas Experiment", (C. Leroy), September 2017, now a Research and Development Engineer at Big Data - Analytics - AI, Activeeon, Paris, France and Montréal, QC, Canada.

SIMARD, C., "Détermination des coefficients de transport turbulent et analyse des cycles magnétiques produits dans un modèle dynamo en champ moyen avec et sans rétroaction magnétique", (P. Charbonneau), septembre 2017, maintenant une Spécialiste Science Physique en Production radar opérationnelle chez Environnement Canada et Changement Climatique, Dorval, QC, Canada

## UNIVERSITÉ DE SHERBROOKE

DAUPHINAIS, G., "La correction d'erreur pour les ayons non abéliens", (D. Poulin), avril 2017, maintenant suis une bourse Postdoctorale à l'Université Complutense de Madrid, Espagne.

DION, M., "Interface p-n à base de cuprates supraconducteurs", (P. Fournier), septembre 2017, maintenant un Professionnel de recherche à l'Institut Quantique, Sherbrooke, QC, Canada.

MÉNARD, M., "Applications du groupe de renormalisation aux conducteurs unidimensionnels dimérisés", (C. Bourbonnais), mai 2017, maintenant en recherche d'emploi.

PETROV, B., "Études des matériaux photoconducteurs ultra rapides à faible gap et leurs applications dans les dispositifs et systèmes THz", (D. Morris), juin 2017, maintenant un Scientifique à Qube 4D Ventures Inc., Montréal, QC, Canada.

SHAHBAZI, M., "Application du Groupe de Renormalisation à la théorie du transport et de l'état supraconducteur sous champs magnétique dans les conducteurs organiques", (C. Bourbonnais), mars 2017, maintenant complète un diplôme en mathématiques financières au HEC de à l'Université de Montréal, Montréal, QC, Canada.

## UNIVERSITÉ LAVAL

ALARIE-VÉZINA, L., "Les superpolynômes de Jack et le modèle Calogero-Moser-Sutherland N=2", (P. Mathieu), novembre 2017, maintenant Stagiaire postdoctoral, Université Laval, Québec, QC, Canada.

- COLLINS-FEKETE, C.-A., “On particle imaging with application to particle radiotherapy”, (L. Beaulieu), October 2017, now pursuing a postdoctoral fellowship at the University College London - National Physics Laboratory, London, United Kingdom.
- DALLAIRE, X., “Miniaturisation de caméras grand angle”, (S. Thibault), décembre 2017, maintenant Concepteur Optique chez Immersion, Montréal, QC, Canada.
- ESPAUNET, R., “Mise au point d’un compteur sanguin pour l’imagerie moléculaire quantitative”, (P. Després), juillet 2017, maintenant Stagiaire postdoctoral à l’Université de Sherbrooke, Sherbrooke, QC, Canada.
- FORTIN, M., “Les faisceaux optiques avec trajectoires courbées”, (M. Piché), février 2017, maintenant Enseignant au CEGEP Sainte-Foy, Québec, QC, Canada.
- KAFANDO, I., “Analyse spectroscopique et photométrie d’un échantillon d’étoiles de la branche horizontale”, (C. Robert), novembre 2017.
- MATENINE, D., “Conception et évaluation d’un nouvel algorithme de reconstruction itérative en tomodensitométrie à faisceau conique implanté sur matériel graphique”, (P. Després), novembre 2017, maintenant Stagiaire postdoctoral, ETS - Centre de recherche du CHUM, Montréal, QC, Canada.
- MUGNES, J.-M., “Développement d’une méthode d’analyse bayésienne simultanée et multiparamétrique des spectres stellaires et son application aux spectres d’étoiles massives”, (C. Robert), mars 2017.
- PARADIS, G., “Étude du mécanisme de croissance du filament bactérien”, (S. Rainville), novembre 2017, now a R&D Optical Designer, JGR Optics Inc., Ottawa, ON, Canada.
- ROUSSEAU-NEPTON, L., “Étude des régions de formation stellaire dans les galaxies spirales avec SpIOMM”, (C. Robert), janvier 2017, maintenant Stagiaire postdoctorale à l’Université de Hawaii à Hilo & Telescope Canada-France-Hawaii, Hawaii, USA.
- VAHANIAN, E., “Développement de couches antireflets à base de nanoparticules de silice pour des systèmes photovoltaïques à haute concentration”, (T. Galstian), décembre 2017.
- UNIVERSITY OF ALBERTA**
- ALEMIE, W., “Time-Lapse Full Waveform Inversion Methods”, (M. Sacchi), November 2017.
- ANWAR, T., “Study of the Chinese Loess and Siberian Flood Basalts: New Global Scale Insights to the Paleoclimate and Geomagnetic Field Changes”, (V. Kravchinsky), June 2017.
- BISWAS, T., “Fabrication, Characterization and Applications of Nanomechanical Resonators”, (J. Davis), November 2017.
- CHENG, J., “Gradient Projection Methods with Applications to Simultaneous Source Seismic Data Processing”, (M. Sacchi), November 2017.
- EBUFEGHA, V., “Anisotropy of Mudrocks: Quantifying Controls and Fabric Implications in the Horn River Basin”, (D. Potter), June 2017.
- FANI SANI, F., “Torque Magnetometry for Concurrent Acquisitions of Magnetostatics and Spin-Dynamics”, (M. Freeman), November 2017.
- JABBAR, S., “Search for the Minimal Supersymmetric Standard Model Neutral Higgs Bosons (A/H) Decaying to  $\tau+\tau$  in pp Collisions at  $\sqrt{s}=13$  TeV with the ATLAS Detector”, (R. Moore), June 2017.
- KAZEMI NOJADEH, N., “Efficient Algorithms for Least Squares Wave Equation Migration and Source Signature Estimation”, (M. Sacchi), November 2017.
- LI, Z., “Rotational Seismology and Its Applications in Microseismic Event Localization”, (M. van der Baan, M. Dumberry), November 2017.
- MALEHMIR, M., “Reflectivity Analysis from the Low Symmetric Anisotropic Media”, (D. Schmitt), November 2017.
- MILES, D., “Advances in Fluxgate Magnetometry for Space Physics”, (I. Mann, M. Unsworth), June 2017.
- MOHAMMED HOSSEINI DOKHT, R., “Imaging Upper Mantle Discontinuities Using Long Period Seismic Data”, (Y. Gu), June 2017.
- STANTON, K., “Vector Interpolation and Regularized Elastic Imaging of Multicomponent”, (M. Sacchi), November 2017.
- TZOUNIS, C., “Radiation from Particles Revolving Around a Magnetized Schwarzschild Black Hole”, (V. Frolov), June 2017.
- WU, L., “Apparent Polar Wandering and Its Implications for Past Plate Motions”, (V. Kravchinsky, D. Potter), June 2017.
- UNIVERSITY OF BRITISH COLUMBIA**
- CHEN, H., “Validation and optimization of myelin water imaging in a preclinical model of spinal cord injury”, (P. Kozlowski), January 2017.
- CLARK, H., “Assessment of spatially inhomogeneous intra-organ radiation dose response in salivary glands”, (S. Thomas), April 2017.
- CRUZ, S., “Single particle structure of exotic strontium isotopes”, (R. Kruecken), June 2017.
- ESQUINAS FERNANDEZ, P., “Quantitative measurements of Rhenium-188 for radionuclide therapies”, (A. Celler), June 2017.
- GIGNAC, M., “Searches for Supersymmetry in events with one-lepton, jets and missing transverse momentum with the ATLAS detector”, (C. Gay), August 2017.
- KHADEMI, A., “Tuning Graphene’s Electronic and Transport Properties via Adatom Deposition”, (J. Folk), August 2017.
- KIM, N., “Holographic gauge/gravity duality and symmetry breaking in semimetals”, (G. Semenoff), February 2017.
- KLYUZHIN, I., “Deformable motion correction and spatial image analysis in positron emission tomography”, (V. Sossi), January 2017.
- MÖLLER, M., “Temperature-driven spectral weight transfer in doped magnetic insulators”, (M. Berciu), January 2017.
- MIRSADEGHI, S., “A silicon photonic circuit for optical trapping and characterization of single nanoparticle”, (J. Young), April 2017.
- NIELSEN, C., “Constraining the flux and cross section models using carbon and oxygen targets in the off-axis near detector for the 2016 joint oscillation analysis at T2K”, (S. Oser), March 2017.
- OMID, H., “ $2+1d$  quantum field theories in large N limit”, (G. Semenoff), January 2017.
- PARK, J., “Decay spectroscopy of  $N \sim Z$  nuclei in the vicinity of  $100\text{Sn}$ ”, (R. Kruecken), March 2017.
- ROSSOKHATY, O., “Non-equilibrium transport in electron solids”, (J. Folk), January 2017.
- SABOURI, S., “A new multiparametric MRI protocol for diagnosis of prostate cancer”, (P. Kozlowski), August 2017.
- SAMANI NASAB, M., “Local probe of electronic states in high mobility quantum Hall samples”, (J. Folk), September 2017.
- SCHELEW, E., “Nonlinear optical response of triple-mode silicon photonic crystal microcavities coupled to single channel input and output waveguides”, (J. Young), October 2017.
- SCHULZ-WEILING, M., “Ultracold molecular plasma”, (E. Grant), August 2017.
- SHI, Z., “Conductance of junctions of multiple interacting quantum wires and long Aharonov-Bohm-Kondo rings”, (I. Affleck), July 2017.
- SULLIVAN, T., “A high-precision measurement of the pion branching ratio”, (D. Bryman), April 2017.
- SUZUKI, F., “Quantum Mechanics of Composite Objects with Internal Entanglement”, (T. Momose), August 2017.
- TANIMURA, H., “Probing the Large-Scale Structure of the Universe with the Sunyaev-Zel’dovich Effect”, (G. Hinshaw), September 2017.
- TOBAYAMA, S., “An analysis of the oscillation of atmospheric neutrinos”, (H. Tanaka), January 2017.
- TROESTER, T., “Weak gravitational lensing cross-correlations”, (L. Van Waerbeke), August 2017.
- VINCART-EMARD, A., “Numerical investigation of spatial inhomogeneities in gravity and quantum field theory”, (M. Rozali), August 2017.
- ZAKARIAEE KOUGHAKSAR, R., “Localized bladder dose accumulation in multi-fraction cervical cancer brachytherapy”, (A. MacKay), January 2017.

## UNIVERSITY OF CALGARY

- ARCHER, W.E., “Birkeland Current Boundary Flows”, (D. Knudsen), June 2017.
- CONROY, L. A., “Respiratory and breath hold motion in contemporary breast irradiation: dosimetric impact and management techniques”, (W. Smith), June 2017.
- GHAHREMANINEZHADGHARELAR, R., “Study of Dimethyl sulfide, sulfate aerosol and ice nucleation particles in the Arctic summer”, (A.-L. Norman), June 2017.
- KOGER, B. M., “Radiation dosimetry in the presence of gold nanoparticles”, (C. Kirkby), June 2017.
- LAU, H. W., “Nonlinear dynamics of mathematical models and proposed implementations in ultracold atoms”, (C. Simon), June 2017.
- SANG-NOURPOUR, N., “Characterization of surface-plasmon polaritons and electromagnetic waveguides with positive, negative and near-zero permittivity and permeability”, (B. Sanders), November 2017.

## UNIVERSITY OF GUELPH

- VAN BOMMEL, S., “Expanding the Capability of the Alpha Particle X-ray Spectrometer Including Quantification of Fine-Scale Chemistry and Atmospheric Monitoring”, (R. Gellert), October 2017, now currently pursuing a Postdoctoral Fellowship at the University of Guelph, Guelph, ON, Canada.
- ILLES, E., “Properties of the alpha-T3 Model”, (E. Nicol), August 2017, now working for the Federal Government - security – Canada.
- MILLER, J., “Selected Problems in Computational Gravity”, (E. Poisson, E. Schnetter), July 2017, now working for the Federal Government, USA.
- LANDRY, P., “Tidal Response of a Rotating Neutron Star in General Relativity”, (E. Poisson), July 2017.
- KLASSEN, J., “Existence and Uniqueness in the Quantum Marginal Problem”, (B. Zeng, Y. Shen), June 2017.
- MALCOLM, J., “The role of pseudospin in the optical and electronic properties of relativistic materials”, (E. Nicol), March 2017, now a Quantitative Analyst at a Pension Fund in Toronto, ON, Canada.

## UNIVERSITY OF LETHBRIDGE

- BOSSO, P., “Generalized Uncertainty Principle & Quantum Gravity Phenomenology”, (S. Das), August 2017, now searching for employment.

## UNIVERSITY OF MANITOBA

- HEUSEN, M., “Analytical and Numerical Investigation of Energetic Particles Interacting

with Turbulent Magnetic Fields, (A. Shalchi), February 2017, now a Data Scientist at XE.com Inc, Newmarket, ON, Canada.

- MCCREA, M., “Parity Violation and Cold Neutron Capture: A Study of the Detailed Interaction Between Hadrons”, (M. Gericke, J. Martin), February 2017, Pursuing a Postdoctoral Fellowship at the University of Kentucky, Lexington, Kentucky, USA.
- TEO, P.T.T., “Autonomous Lung Tumor and Critical Structure Tracking Using Optical Flow Computation and Neural Network Prediction”, (S. Pistorius), February 2017, Now a Medical Physics Resident at the University of Pittsburgh Cancer Institute / UPMC Cancer Centre, Pittsburgh, PA, USA.
- ZHANG, Z., “Spin-Dependent Electrical and Thermal Transport in Magnetic Tunnel Junctions”, (C-M. Hu), February 2017, now pursuing a Postdoctoral Fellowship at Northeastern University, Department of Electrical & Computer Engineering, Boston, Massachusetts, USA.
- SKOROPATA, E., “The Origin of the Magnetism of Maghemite (Y-Fe<sub>2</sub>O<sub>3</sub>) Based Core/Shell Nanoparticles”, (J. van Lierop), October 2017, now pursuing a Postdoctoral Fellowship at Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA.
- TEIGELHOFER, A., “Isotope Shift and Hyperfine Structure Measurements on Silver, Actinium and Astatine by In-Source Resonant Ionization Laser Spectroscopy”, (J. Lassen, G. Gwinner), October 2017, now pursuing a Postdoctoral Fellowship at TRIUMF, Vancouver, BC, Canada.
- WEI, P.-S., “New Methods for Optimizing Parallel Transmit / Receive Array Coils to Small Field - of - View Excitation for Breast and Cardiac MRI”, (S. King, C. Bidinosti), October 2017.

## UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

- ATHIENO, R., “Empirical model in the characterization of Hi Frequency propagation in the Arctic region”, (P.T. Jayachandran), May 2017.
- MEZAOUI, H., “Characterization of Ionospheric Scintillation at High Latitudes”, (P.T. Jayachandran, A. Hamza), October 2017.

## UNIVERSITY OF OTTAWA

- BAGHERI, M., “A Minimal Model for Disordered Proteins”, (J. Harden, B. Joos), October 2017, now pursuing a Postdoctoral Fellowship at the University of Ottawa, Ottawa, ON, Canada.
- SEAN-FORTIN, D. S., “Highly Driven Polymer Translocation in the Presence of External Constraints: Simulations and Theory”, (G. Slater), May 2017, now pursuing a Postdoctoral

- Fellowship at the Institute for Computational Physics, Universität Stuttgart, Stuttgart, Germany.
- VAN DER KOLK, J. N., “Theory of Image Formation in Non-linear Optical Microscopy”, (L. Rammuno), October 2017, now pursuing a Postdoctoral Fellowship at the University of Ottawa, Ottawa, ON, Canada.
- XU, Y., “Fiber random grating and its applications”, (X. Bao), October 2017, now an Optical Systems Engineer at Ciena Inc., Ottawa, ON, Canada.

## UNIVERSITY OF REGINA

- LI, W., “Exclusive Backward-Angle Omega Meson Electroproduction”, (G. Huber), October 2017, now pursuing a Postdoctoral Fellowship at the College of William & Mary, Williamsburg, VA, USA.
- PAUDYAL, D., “Spin Polarizability of a Proton Using Polarized Photon Beam and Polarized Butanol Target at Mainz Microtron”, (G. Huber), August 2017, now pursuing a Postdoctoral Fellowship at the University of Regina, Regina, SK, Canada.

## UNIVERSITY OF SASKATCHEWAN

- ALIBAZI, R. B., “Enhancement of charged particle emission from a plasma focus device”, (C. Xiao), August 2017, now pursuing a Postdoctoral Fellowship at the University of Denver, Denver, Colorado, USA.
- BASSEY, B., “Development of a Multiple Energy Synchrotron Biomedical Imaging System”, (D. Chapman), November 2017, now Self Employed, Saskatoon, SK, Canada.
- MARTINSON, M., “Bent Laue X-ray Beam Expander”, (D. Chapman, P. Babyn), February 2017, now an Experimental Floor Coordinator at Canadian Light Source, Saskatoon, SK, Canada.
- ROHOLLAHI, A., “Experimental Studies using compact Torus Injector”, (A. Hirose, C. Xiao), November 2017, now a Scientist at General Fusion, Burnaby, BC, Canada.
- TOLHURST, T., “Soft X-ray Spectroscopy of Metal Nitrides and Oxides: Uncovering Structure-property University Relationships in Phosphorus for pd-LEDs”, (A. Moewes), April 2017, now an Analyst at MDA Corporation, Vancouver, BC, Canada.

## UNIVERSITY OF TORONTO

- BLACKPORT, R., “The atmospheric response to arctic sea ice loss in the coupled climate system, (P.J. Kushner), March 2017, now pursuing a Post Doctoral Fellowship at the University of Exeter, Exeter, UK.

- CHAU, C. C., “Measurement of di-photon induced production of W-boson pairs and limits on anomalous quartic gauge couplings”, (W. Trischuk), June 2017.
- DIAMOND, M., “Search for dark gauge bosons decaying into displaced lepton-jets in proton-proton collisions at  $\sqrt{s}=13$  TeV with the ATLAS detector”, (W. Trischuk), June 2017, now an Experimental Research Associate at SLAC National Accelerator Laboratory, Melo Park, CA, USA.
- EDGE, G., “Imaging fermionic atoms in a quantum gas microscope”, (J.H. Thywissen), June 2017, now a Data Scientist at JW player, New York City, NY, USA.
- FOSTER, S., “Applications of photonic crystals to photovoltaic devices”, (S. John), November 2017.
- GODIN, P., “Laboratory spectroscopy for atmospheric physics”, (K. Strong), November 2017, now pursuing a Post Doctoral Fellowship at York University, Toronto, ON, Canada.
- GRIFFIN, D., “Investigation of tropospheric pollutants and stratospheric ozone using infrared Fourier transform spectrometers from the ground, space, and balloons”, (K.A. Walker), June 2017.
- HICKEY, C., “Novel phases from the interplay of topology and strong interactions”, (A. Paramekanti), November 2017, now pursuing a Post Doctoral Fellowship at the Institute for Theoretical Physics, University of Cologne, Cologne, Germany.
- INMAN, D., “Nonlinear dynamics of the cosmic neutrino background”, (U.-L. Pen), November 2017, now pursuing a Post Doctoral Fellowship at New York University, Cosmology, New York, NY, USA.
- JARDINE, I., “Deformed D1D5 CFT: a holographic probe of quantum gravity”, (A.W. Peet), November 2017, now pursuing a Post Doctoral Fellowship at the University of Toronto, ON, Canada.
- KONTENIS, L., “Experimental nonlinear polarimetric microscopy”, (V. Barzda), November 2017, now a Research and Development Engineer at Light Conversion, Vilnius, Lithuania.
- LUCIUK, C., “Non-equilibrium dynamics of strongly interacting fermions”, (J.H. Thywissen), November 2017.
- MARSHALL, K., “Hybrid methods in quantum information”, (D.F.V. James), November 2017.
- MCGOLDRICK, G., “Measurement of tt-bar polarization with the ATLAS detector”, (W. Trischuk), June 2017.
- MENDONCA, J., “Improving the retrievals of greenhouse gases from ground-based absorption spectra”, (K. Strong), June 2017.
- RATZLAFF, M., “Phenomenology of heavy lepton and heavy higgs decays at the LHC”, (B. Holdom), November 2017.
- ROY, K., “High quality constraints on the glacial isostatic adjustment process over North America: the ICE-7G\_NA (VM7) model”, (W.R. Peltier), June 2017, now pursuing a Post Doctoral Fellowship at the National Technical University of Singapore, Singapore.
- SAHOTA, J., “Quantum-enhanced phase estimation in optical interferometry”, (D.F.V. James), November 2017.
- SALEHIPOUR, H., “Stratified turbulence and ocean mixing”, (W.R. Peltier), November 2017, now pursuing a Talent-Edge Post Doctoral Fellowship at the University of Toronto, ON, Canada.
- SEARS, J., “Structure and magnetism of a-RuCl<sub>3</sub>”, (Y.J. Kim), November 2017, now a Scientist at DESY in Hamburg, Germany.
- SWIĘCICKI, S., “Response of periodic systems to electromagnetic fields: multipole expansion, microscopic charge - current density, polarization and magnetization”, (J.E. Sipe), November 2017, now a Manager at Market Risk Measurement at Scotiabank, Toronto, ON, Canada.
- TIAN, D., “Pressure induced quantum phase transitions”, (S.R. Julian), November 2017.
- TRIM, S., “The dynamic interaction of mantle compositional heterogeneities at the surface and the core mantle boundary”, (J.P. Lowman), November 2017.
- Vernon, Z., “Micro resonators for nonlinear quantum optics”, (J.E. Sipe), November 2017.
- YIGE, C., “Topological phases in perovskite iridates with strong spin - orbit coupling”, (H.Y. Kee), November 2017.
- YU, J., “Ground state properties of strongly correlated electron systems in high magnetic field”, (S.R. Julian), November 2017, now a Data Scientist at Capital One, Toronto, ON, Canada.
- ZHANG, Z., “Single molecule spectroscopy of disordered states and dynamics in proteins”, (C.C. Gradinaru), June 2017.
- ZHAO, X., “Studies of atmospheric ozone and related constituents in the Arctic and midlatitudes”, (K. Strong), June 2017, now pursuing a Visiting Fellowship at Natural Sciences and Engineering Research Council of Canada (NSERC), Toronto, ON, Canada.
- FATTAHI SAVADJANI, A., “The Local Group and its Dwarf Galaxy Members within the Standard Model of Cosmology”, (J. Navarro), November 2017, now pursuing a Postdoctoral Fellowship at Durham University, Durham, UK.
- FRADETTE, A., “From Gas and Dust to Protostars: Addressing the Initial Stages of Star Formation Using Observations of Nearby Molecular Clouds”, (M. Pospelov), December 2017, now a Consultant at the Boston Consulting Group, Montreal, QC, Canada.
- HILL, E., “Search for direct scalar top pair production in final states with two tau leptons in pp collisions at  $\sqrt{s}=8$  TeV at the ATLAS Detector at the Large Hadron Collider”, (R. Kowalewski, I. Trigger), September 2017, now searching for employment.
- KOLTHAMMER, J., “Chirality control and magnetization dynamics in a dual vortex spin valve nanopillar”, (B.C. Choi), May 2017, now searching for employment.
- KWAN, T., “Measurements of Neutral Current Drell-Yan Production at 8 TeV with the ATLAS Detector”, (R. Keeler), November 2017, now a Research Assistant at University of Victoria, Victoria, BC, Canada.
- LAMB, M., “On the Calibration and Use of Adaptive Optics Systems: RAVEN Observations of Metal-Poor Stars in the Galactic Bulge and the Application of Focal Plane Wavefront Sensing Techniques”, (K. Venn, D. Andersen), November 2017, now pursuing a Postdoctoral Fellowship at the Dunlap Institute, Toronto, ON, Canada.
- LE DALL, M., “Portal Interactions Within Leptogenesis and Precision Observables and Quantum Theory of Orbital-Degenerate Impurities in Superconductors”, (A. Ritz, R. de Sousa), November 2017, now pursuing a Postdoctoral Fellowship at the University of Victoria, Victoria, BC, Canada.
- LEBLANC, M., “Characterising the Decays of High-pT Top Quarks and Addressing Naturalness with Jet Substructure in ATLAS Runs I and II”, (R. McPherson), May 2017, now pursuing a Postdoctoral Fellowship at University of Arizona, Tucson, Arizona, USA.
- LLOYD, S., “Measurement and Monte Carlo simulation of electron fields for modulated electron radiation therapy”, (A. Jirasek, I. Gagne), May 2017, now a Medical Physics Resident at University of California at San Diego, CA, USA.
- MAIRS, S., “From Gas and Dust to Protostars: Addressing the Initial Stages of Star Formation Using Observations of Nearby Molecular Clouds”, (D. Johnstone, F. Herwig), December 2017, now a Support Astronomer at East Asian Observatory (James Clerk Maxwell Telescope), Hilo, Hawaii, USA.
- MORTON, D., “Quantitative Techniques for Permanent Breast Seed Implant Brachytherapy”,

## UNIVERSITY OF VICTORIA

- DE JONG, S., “Study of Thermal Neutron Flux from SuperKEKB in the Belle II Commissioning Detector”, (J.M. Roney), November 2017, now a Research Assistant at University of Victoria, Victoria, BC, Canada.
- ELLIOT, A., “Search for Dark Matter in Association with a Leptonically Decaying Z Boson in the ATLAS Detector at the Large Hadron Collider”, (R. Keeler, R. McPherson), November 2017, now a Research Assistant at University of Victoria, Victoria, BC, Canada.

- (A. Jirasek, W. Beckham), September 2017, now a Medical Physics Resident at BC Cancer, Abbotsford, BC, Canada.
- OMAN, K., “An Explanation for the Unexpected Diversity of Dwarf Galaxy Rotation Curves”, (J. Navarro), November 2017, now pursuing a Postdoctoral Fellowship at University of Groningen, Netherlands.
- RITTER, C., “Nucleosynthesis in stellar models across initial masses and metallicities and implications for chemical evolution”, (F. Herwig), May 2017, now a Research Associate at Keele University, Staffordshire, UK.
- SHANKMAN, C., “On the Characteristics and Evolution of Dynamically Excited Trans-Neptunian Objects”, (J.J. Kavelaars, F. Herwig), November 2017, now a Toronto Urban Fellow Research Associate at the City of Toronto, Toronto, ON, Canada.
- TASNEEM, N., “Search for the Lepton Flavour Violating Decay in  $Y(3S) \rightarrow e^{\pm} \mu^{\mp}$ ”, (J.M. Roney), November 2017, now an Academic Instructor, Engineering Department at Saint Francis Xavier University, Antigonish, NS, Canada.
- TURRI, P., “Advancing Next Generation Adaptive Optics in Astronomy: From the Lab to the Sky”, (D. Andersen, K. Venn), November 2017, now pursuing a Postdoctoral Fellowship at University of California at Berkeley, CA, USA.
- UNIVERSITY OF WATERLOO**
- AGNE, S., “Exploration of Higher-Order Quantum Interference Landscapes”, (T. Jennewein), August 2017, now pursuing a Postdoctoral Fellowship at The Rockefeller University, New York, NY, USA.
- AHMADZADEGAN, A., “Probing the Unruh and Hawking effects using Unruh-DeWitt detectors”, (R. Mann, D. Terno), October 2017, now pursuing a Postdoctoral Fellowship at the University of Waterloo, Waterloo, ON, Canada.
- BANBURSKI, A., “Towards vertex renormalization in 4d Spin Foams”, (L. Smolin, L. Freidel), July 2017, now pursuing a Postdoctoral Fellowship at MIT, Cambridge, MA, USA.
- CHEN, L., “Amplitudes in the Spin Foam Approach to Quantum Gravity”, (L. Smolin, L. Freidel), July 2017, now pursuing a Postdoctoral Fellowship at the Okinawa Institute for Science and Technology, Okinawa, Japan.
- CORONA UGALDE, P., “Experimental Prospects for Detecting the Quantum Nature of Spacetime”, (R. Mann), September 2017, now pursuing a Postdoctoral Fellowship at the University of Waterloo, Waterloo, ON, Canada.
- GOULD, Elizabeth, “New Views on the Cosmological Big Bang”, (N. Afshordi), September 2017, now pursuing a Postdoctoral Fellowship at Southampton University, Southampton, UK.
- GRAYDON, M., “Conical Designs and Categorical Jordan Algebraic Post-Quantum Theories”, (R. Spekkens), January 2017, now pursuing a Postdoctoral Fellowship at the University of Hong Kong, Hong Kong.
- HOLLOWAY, G., “Electron transport in semi-conducting nanowires and quantum dots”, (J. Baugh), January 2017, now an Electron Beam Lithography Scientist at the Institute for Quantum Computing, Waterloo, ON Canada.
- KOUCHEKZADEH YAZDI, Y., “Entanglement Entropy of Scalar Fields in Causal Set Theory”, (N. Afshordi, R. Sorkin), August 2017, now pursuing a Postdoctoral Fellowship in the Department of Physics at the University of Alberta, Edmonton, AB, Canada.
- LAN, T., “A Classification of (2+1) D Topological Phases with Symmetries”, (X.-G. Wen, R. Melko), September 2017, now pursuing a Postdoctoral Fellowship at the Institute for Quantum Computing at the University of Waterloo, Waterloo, ON, Canada.
- MASON, J., “RF-QPC Charge Detector and S-T+ Qubit in a Lateral Double Quantum Dot Device”, (J. Kycia), January 2017, now pursuing a Postdoctoral Fellowship in the Department of Physics and Astronomy at the University of Waterloo, Waterloo, ON, Canada.
- MAZAC, D., “Explorations in the Conformal Bootstrap”, (D. Gaiotto, F. Cachazo), July 2017, now pursuing a Postdoctoral Fellowship at C.N. Yang Institute for Theoretical Physics in Stony Brook, NY, USA.
- NSOFINI, J., “Quantum Information Enabled Neutron Interferometry”, (D. Cory), June 2017, now pursuing a Postdoctoral Fellowship at the Institute for Quantum Computing at the University of Waterloo, Waterloo, ON, Canada.
- PANFILOV, I., “Topology and interactions in Weyl metals and quantum Hall systems”, (A. Burkov), May 2017, seeking employment.
- PUGH, C., “Free Space Quantum Key Distribution to Moving Platforms”, (T. Jennewein), August 2017, now an Assistant Professor in the Department of Physics and Astronomy at Brandon University, Brandon, MB, Canada.
- REMPEL, T., “An Exploration of Locality, Conservation Laws, and Spin”, (L. Freidel, L. Smolin), January 2017, now employed at Aperio, New York, NY, USA.
- SHALABY, M., “Cosmological beam plasma instabilities”, (A. Broderick, N. Afshordi), August 2017, now a Teaching Assistant of Physics at Cairo University, Cairo, Egypt.
- SIERENS, L., “Simulating quantum matter through lattice field theories”, (R. Melko), May 2017, now a PSI Fellow at Perimeter Institute for Theoretical Physics, Waterloo, ON, Canada.
- SIERENS, T., “Quantum critical responses via holographic models and conformal perturbation theory”, (R. Myers), June 2017, now employed as a Data Science Consultant at QuantaVerse, Wayne, PA, USA.
- SMITH, A., “Detectors, Reference Frames, and Time”, (R. Mann, M. Piani, D. Terno), November 2017, now employed as a Junior Fellow at Dartmouth College, Hanover, New Hampshire, USA.
- TAN, B., “Evaluation and Correlation of Morphological, Blood Flow and Physiological Retinal Changes in a Rat Model of Glaucoma with a Combined Optical Coherence tomography and Electroretinography System”, (K. Bizheva), August 2017, now pursuing a Postdoctoral Fellowship in the Department of Physics and Astronomy at the University of Waterloo, Waterloo, ON, Canada.
- TOEWS, W., “An investigation of low energy quasi-particle excitations via thermal transport measurements”, (R. Hill), June 2017, now seeking employment.
- VON KONIGSLOW, K., “An off-lattice derivation and thermodynamic consistency consideration for the Sanchez-Lacombe equation of state”, (R. Thompson, C. Park), November 2017, now a Professor of Mathematics at Humber College, Etobicoke, ON, Canada.
- WALES, B., “Ultrafast Imaging of Molecular Processes in Small Molecules Using Coulomb Explosion Imaging”, (J. Sanderson), September 2017, now employed at Thalmic Labs, Kitchener, ON, Canada.
- ZHANG, Q., “A Novel Combination Therapy of Cisplatin with a Molecular Promoter for Cancer Treatment”, (Q.-B. Lu), January 2017, now pursuing a Postdoctoral Fellowship at UC-Berkeley, USA.
- ZWANE, N., “Cosmological Tests of Causal Set Phenomenology”, (R. Sorkin, N. Afshordi), September 2017, now employed as a lecturer in the Physics Department at the University of Swaziland, Kwaluseni, Swaziland.
- UNIVERSITY OF WESTERN ONTARIO**
- EZUGWU, S., “Nanoscale thermal and electronic properties of thin films of graphene and organic polyradicals”, (G. Fanchini), December 2016, now a First Year Labs Demonstrator at Western University, London, ON, Canada.
- HAGHSHENASFARD, Z., “Linear and Nonlinear Dynamics of Spin Waves in Ferromagnetic Nanowires”, (M.G. Cottam), April 2017, now a Research Assistant at Western University, London, ON, Canada.
- HUSSAIN, B., “Methods for Improved Estimation of Low Blood Velocities using Vector Doppler Ultrasound”, (T. Poepping, J. Lacefield), April 2017, now a Visiting Researcher at Western University, London, ON, Canada.

KAZEMIAN, S., "Modelling the thermal conductivity of layered materials from photothermal measurements", (G. Fanchini), August 2017, now currently unemployed and searching for work.

LIU, Y., "Three Experiments on Complex Fluids", (J. de Bruyn), December 2017, now currently unemployed and searching for work.

SUBASINGHE, D., "Physical properties of faint meteors through high-resolution observations", (M. Campbell-Brown), December 2017, now a

pursuing a Postdoctoral fellowship at Western University, London, ON, Canada.

TABESHIAN, M., "Detection and Characterization of Extrasolar Planets through Planet-Disk Dynamical Interactions", (P. Wiegert), April 2017, now a First Year Lab Assistant and Sessional Instructor at Western University, London, ON, Canada.

KELLOGG, K., "Investigating Brown Dwarf Atmospheres: Gravity, Dust Content, Cloud

Structure and Metallicity", (S. Metchev), July 2017, now searching for work.

## UNIVERSITY OF WINDSOR

DILORETO, C., "Quantum Control of Open Systems and Dense Atomic Ensembles", (C. Rangan), June 2017, now pursuing a Postdoctoral Fellow at University of Windsor, Windsor, ON, Canada.

### BOOK REVIEW POLICY

Books may be requested from the Book Review Editor, Richard Marchand, by using the online book request form at <http://www.cap.ca>. You must be a residing in Canada to request a book.

CAP members are given the first opportunity to request books. For non-members, only those residing in Canada may request a book. Requests from non-members will only be considered one month after the distribution date of the issue of *Physics in Canada* in which the book was published as being available.

The Book Review Editor reserves the right to limit the number of books provided to reviewers each year. He also reserves the right to modify any submitted review for style and clarity. When rewording is required, the Book Review Editor will endeavour to preserve the intended meaning and, in so doing, may find it necessary to consult the reviewer. Reviewers submit a 300-500 word review for publication in PiC and posting on the website; however, they can choose to submit a longer review for the website together with the shorter one for PiC.

### LA POLITIQUE POUR LA CRITIQUE DE LIVRES

*Si vous voulez faire l'évaluation critique d'un ouvrage, veuillez entrer en contact avec le responsable de la critique de livres, Richard Marchand, en utilisant le formulaire de demande électronique à <http://www.cap.ca>.*

*Les membres de l'ACP auront priorité pour les demandes de livres. Ceux qui ne sont pas membres et qui résident au Canada peuvent faire une demande de livres. Les demandes des non-membres ne seront examinées qu'un mois après la date de distribution du numéro de la Physique au Canada dans lequel le livre aura été déclaré disponible.*

*Le Directeur de la critique de livres se réserve le droit de limiter le nombre de livres confiés chaque année aux examinateurs. Il se réserve, en outre, le droit de modifier toute critique présentée afin d'en améliorer le style et la clarté. S'il lui faut reformuler une critique, il s'efforcera de conserver le sens voulu par l'auteur de la critique et, à cette fin, il pourra juger nécessaire de le consulter. Les critiques pour publication dans la PaC doivent être de 300 à 500 mots. Ces critiques seront aussi affichées sur le web; s'ils le désirent les examinateurs peuvent soumettre une plus longue version pour le web.*

## BOOKS RECEIVED / LIVRES REÇUS

The following titles are a sampling of books that have recently been received for review. Readers are invited to write reviews, in English or French, of books of interest to them. Unless otherwise indicated, all prices are in Canadian dollars.

Lists of all books available for review, books out for review and book reviews published since 2011 are available on-line at [www.cap.ca](http://www.cap.ca) (Publications).

In addition to books listed here, readers are invited to consider writing reviews of recent publications, or comparative reviews on books in topics of interest to the physics community. This could include for example, books used for teaching and learning physics, or technical references aimed at professional researchers.

*Les titres suivants sont une sélection des livres reçus récemment aux fins de critique. Nous invitons nos lecteurs à nous soumettre une critique en anglais ou en français, sur les sujets de leur choix. Sauf indication contraire, tous les prix sont en dollars canadiens.*

*Les listes de tous les livres disponibles pour critique, ceux en voie de révision, ainsi que des critiques publiées depuis 2011 sont disponibles sur : [www.cap.ca](http://www.cap.ca) (Publications).*

*En plus des titres mentionnés ci-dessous, les lecteurs sont invités à soumettre des revues sur des ouvrages récents, ou des revues thématiques comparées sur des sujets particuliers. Celles-ci pourraient par exemple porter sur des ouvrages de nature pédagogique, ou des textes de référence destinés à des professionnels.*