## Kyle R. Bryenton

Curriculum Vitae: December 27, 2023

Halifax, NS, Canada email: Kyle.Bryenton@dal.ca website: KyleBryenton.github.io

#### **EDUCATION**

#### Doctor of Philosophy - Ph.D Candidate, Physics

2020 - present

Department of Physics & Atmospheric Science (Chemical Physics / Density-Functional Theory) Dalhousie University, Halifax, NS

Thesis: Improved Calculation of XDM Dispersion Forces, with Application to Surfaces and Interfaces Supervisor: Dr. Erin Johnson

### AARMS Summer School: Dynamical Systems, DEs, and Special Functions

2019

UPEI School of Mathematical and Computational Sciences University of Prince Edward Island, Charlottetown, PE

 $The \ Mathematics \ and \ Science \ of \ Chaos$ 

Instructor: Dr. James Yorke, University of Maryland q-Series in Analysis, Combinatorics, and Number Theory

Instructor: Dr. Mourad Ismail, University of Central Florida

### Master of Science - M.Sc, Physics

2016 - 2018

Guelph-Waterloo Physics Institute (Condensed Matter Physics / Quantum Materials)

University of Guelph, Guelph, ON

Thesis: Optical Properties of the  $\alpha$ - $\mathcal{T}_3$  Semi-Dirac Model

Supervisor: Dr. Elisabeth Nicol

Bachelor of Science 2011 - 2016

UPEI Department of Physics: Honours in Physics with Co-operative Education UPEI School of Mathematical and Computational Sciences: Major in Mathematics University of Prince Edward Island, Charlottetown, PE

Thesis: Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Finencylus Problem

and the Eigenvalue Problem Supervisors: Dr. Nasser Saad, Dr. Sheldon Opps

First-Class Standing

### UNIVERSITY PROFESSIONAL SERVICES

Member, American Chemical Society	2014 - present
• Member, Canadian Association of Physicists	2014 - present
Member, Canadian Mathematical Society	2014 - present
• Coordinator, UPEI Mathematics Enrichment Camp	2014 - 2017
Member, UPEI SMCS - Financial Mathematics Hiring Committee	2015 - 2016
Physics Representative, Regional Astronomical Society	2012 - 2016
• External Physics Consultant, Confidential Medical Technology Company	2015
• Coordinator, UPEI SU Get Out The Vote Campaign	2015
• Coordinator, UPEI Science Undergraduate Research Conference	2015

### UNIVERSITY SOCIETAL SERVICES

Dalhousie Graduate Physics Society $Treasurer$	2020 - present 2022 - present
• UPEI Mathematics Society  President  Second-Year Representative	2011 - 2016 2013 - 2016 2012 - 2013
• UPEI Physics Society  Vice President  Third-Year Representative  Second-Year Representative	2011 - 2016 2014 - 2015 2013 - 2014 2012 - 2013
• UPEI RA  Administrative Assistant	2011 - 2016 2012 - 2013
• UPEI Computer Science Society	2011 - 2016

# AWARDS & HONOURS

University	Program	Award Name	Value	Year
Dalhousie University	Ph.D	CCAM Physics Conference Feedback Award	\$30	2022
Dalhousie University	Ph.D	Killam Predoctoral Scholarship	\$90,000	2020
Dalhousie University	Ph.D	Nova Scotia Graduate Scholarship	\$60,000	2020
Dalhousie University	Ph.D	Dalhousie President's Award	\$12,294	2020
Dalhousie University	Ph.D	Walter C. Sumner Memorial Fellowship	\$16,400	2020
Dalhousie University	Ph.D	Canadian Mathematical Society President's Award	\$100	2019
University of Guelph	M.Sc	NSERC Canada Graduate Scholarship - Masters	\$17,500	2017
University of Guelph	M.Sc	Ontario Graduate Scholarship (Declined)	\$15,000	2017
University of Guelph	M.Sc	Ontario Graduate Fellowship	\$9,000	2017
University of PEI	B.Sc	Jeff Praught Award in Mathematics	\$500	2016
University of PEI	B.Sc	Physics Department Graduation Prize	\$200	2016
University of PEI	B.Sc	George Coles Graduate Scholarship	\$1,400	2016
University of PEI	B.Sc	UPEI Diamond Award in Educational Leadership	\$500	2016
University of PEI	B.Sc	UPEI Student/Alumnus of the Month	N/A	2016
University of PEI	B.Sc	Robert Haines Memorial Science Award of Merit	N/A	2015
University of PEI	B.Sc	Dr. John H. Maloney Scholarship in Science/Business	\$390	2015
University of PEI	B.Sc	MacLauchlan Prize for Effective Writing	\$500	2015
University of PEI	B.Sc	Dr. Terry McCormack Award	\$500	2015
University of PEI	B.Sc	UPEI Academic Excellence Award	\$2,000	2015
University of PEI	B.Sc	NSERC Undergraduate Student Research Award	\$4,500	2014
University of PEI	B.Sc	UPEI Academic Excellence Award	\$1,000	2014
University of PEI	B.Sc	Island Student Award - Fourth Year	\$600	2014
University of PEI	B.Sc	Chin-Hai Lin Memorial Award	\$120	2013
University of PEI	B.Sc	Physics Co-operative Education Student of the Year	\$500	2013
University of PEI	B.Sc	Physics Department Prize in Modern Physics	\$200	2013
University of PEI	B.Sc	Island Student Award - Third Year	\$600	2013
University of PEI	B.Sc	Austin A. Scales Scholarship	\$2,000	2012
University of PEI	B.Sc	Island Student Award - Second Year	\$400	2012
University of PEI	B.Sc	Inspiring Excellence Award	\$1,000	2011
University of PEI	B.Sc	Access PEI: Community Service Bursary	\$500	2011
University of PEI	B.Sc	George Coles Bursary	\$2,000	2011

### CCAM Physics Conference Feedback Award

Award: \$30

Awarded to deserving participants at the 2022 Canadian-Cuban-American-Mexican Graduate Student Physics Conference ( $C^2AM$ ).

### Killam Predoctoral Scholarship

2020 - 2022

2022

Award: \$30,000/yr for 3 years

Dalhousie awards Killam Predoctoral Scholarships on a competitive basis to outstanding graduate students planning to enroll or already enrolled in thesis-based programs (Master's or Doctoral level) in any discipline in the sciences, engineering, humanities, and social sciences. This scholarship is open to both Canadians and non-Canadians.

#### Nova Scotia Graduate Scholarship

2020-2023

Award: \$15,000/yr for 4 years

The Nova Scotia Graduate Scholarship program provides funding to research graduates at Dalhousie for innovative work aligned with or advancing Nova Scotia priorities. The objectives of this award are to attract and retain top-quality research graduates, as well as to encourage exploration, discovery, and innovation in research priority areas for Nova Scotia.

### Dalhousie President's Award

2020-2021

Award: Full-Tuition Scholarship for 2 years

The President's Awards are for students starting PhD programs who have a full doctoral scholarship to cover their full costs of tuition.

2020

#### Walter C. Sumner Memorial Fellowship

Award: \$8,200/yr for 2 years

Up to 40 Walter C. Sumner Memorial Fellowships will be awarded nationally to doctoral students who are registered or about to commence studies in Chemistry, Physics, Electrical Engineering, or Computer Science. Candidates must be nominated by one of the participating universities. Recommendations for the award of fellowships will be made to the Foundation by a selection committee of senior scientists who are not from the participating universities.

#### Canadian Mathematical Society President's Award

2019

Award: \$100

Awarded to a deserving student based on their research quality and presentation skills at the 2019 CMS Winter Meeting.

#### NSERC Canada Graduate Scholarship - Masters

2017

Award: \$17,500

The objective of the Canada Graduate Scholarships-Master's (CGS M) Program is to help develop research skills and assist in the training of highly qualified personnel by supporting students who demonstrate a high standard of achievement in undergraduate and early graduate studies.

#### Ontario Graduate Scholarship

2017

Award: \$15,000 (Declined)

The Ontario Graduate Scholarship (OGS) Program recognizes academic excellence in graduate studies at the master's and doctoral levels in all disciplines of academic study. The ministry contributes two-thirds of the value of the award and the university provides one-third. A recipient will be awarded \$5,000 per semester for up to three semesters.

### Ontario Graduate Fellowship

2016

Award: \$9,000

The Ontario Graduate Fellowships (OGF) Program recognizes academic excellence in graduate studies at the master's and doctoral levels in all disciplines of academic study. The OGF is valued at \$3,000 per semester for two to three semesters of study. Selection criteria is based on academic excellence as defined by a combination of grades, research, demonstrated leadership and publications.

#### Jeff Praught Award in Mathematics

2016

Award: \$500

Awarded to a deserving graduating student who has been involved in student life at UPEI and/or the community. Preference will be given to those not been in receipt of a scholarship or bursary of more than \$2,000 during his/her undergraduate degree and is not receiving another graduation award.

### Physics Department Graduation Prize

2016

Award: \$200

Awarded to a graduating physics student, referred by the physics department.

#### George Coles Graduate Scholarship

2016

Award: \$1,400

Awarded to Island residents graduating from UPEI or Maritime Christian College in their first undergraduate degree.

### UPEI Diamond Award in Educational Leadership

2016

Award: \$500

This award is presented to full-time students in good academic standing who impart knowledge and experience to others to support their current and future success. These students are dedicated to creating and sustaining vibrant learning communities and assisting other students and community members to reach their full potential.

#### UPEI Student/Alumnus of the Month, February 2016

2016

Award: Prestigious Recognition

Recognition for creating the nonprofit educational program, UPEI Mathematics Achievement Program, which taught grade 3-6 PEI students math during the 2015-2016 academic year. The full profile may be found here:

https://web.archive.org/web/20160304210544/https://www.upei.ca/science/notice/2016/02/studentalumnus-profile-month-february-2016

#### Robert Haines Memorial Science Award of Merit

2015

Award: Prestigious Recognition

A prestigious award where nominees are judged for excellence in two categories: academic standing and service and leadership either within the academic community or the community at large. The Chair of each Science Department submits a letter of nomination with supporting documents to the Dean of Science, on behalf of a student within their respective department for consideration.

### Dr. John H. Maloney Scholarship in Science/Business

2015

Award: \$390

Awarded to an undergraduate student in the School of Business or Faculty of Science who has expressed inquisitiveness and desire to learn, shows leadership, is a team player, contributes to UPEI or the general community in a meaningful manner.

2015

#### MacLauchlan Prize for Effective Writing

Award: \$500

Awarded to returning UPEI undergraduate students who have produced an outstanding written work during the previous academic year. Writing is a natural extension of human life and plays a tremendous role in personal and professional growth. Success as a knowledge-based society depends on a population that is able to communicate effectively. By celebrating writing excellence, these awards send a powerful signal regarding the collective importance of writing.

#### Dr. Terry McCormack Award

2015

Award: \$500

Awarded to a student entering third-year or fourth-year from rural PEI who has expressed an interest in health care; the student must have maintained at least an 80% average in the last two semesters of study.

#### **UPEI Academic Excellence Award**

2015

Award: \$2,000

Awarded to UPEI students who demonstrated high academic standing in their past year of studies.

#### NSERC Undergraduate Student Research Award

2014

Award: \$4,500

Awarded to Canadian undergraduate students currently enrolled in a bachelor's degree program at an eligible university who have high academic standing. The purpose is to stimulate undergraduate students' interest in research in the natural sciences and engineering.

#### **UPEI Academic Excellence Award**

2014

Award: \$1,000

Awarded to UPEI students who demonstrated high academic standing in their past year of studies.

#### Island Student Award - Fourth Year

2014

Award: \$600

Awarded to eligible Island students enrolled in full-time studies at UPEI or Maritime Christian College, offered by the Government of Prince Edward Island. Available to fourth-year students only.

### Chin-Hai Lin Memorial Award

2013

Award: \$120

Awarded to the student majoring in Physics who achieved the highest overall average in second year.

#### Physics Co-operative Education Student of the Year

2013

Award: \$500

Awarded to a deserving student in the Physics Co-operative Education program based on academic achievement, community involvement, contribution to their previous employer, and the impact the co-operative education program has had on their professional development.

#### Physics Department Prize in Modern Physics

2013

Award: \$200

Awarded to the student ranking highest in Physics 221 based on the recommendation of the chair of the Physics Department.

#### Island Student Award - Third Year

2013

Award: \$600

Awarded to eligible Island students enrolled in full-time studies at UPEI or Maritime Christian College, offered by the Government of Prince Edward Island. Available to third-year students only.

#### Austin A. Scales Scholarship

2012

Award: \$2,000

Awarded to students from rural PEI, one from each county, based on financial need and achievement in the first year of a university program. Available to second-year students only.

#### Island Student Award - Second Year

2012

Award: \$400

Awarded to eligible Island students enrolled in full-time studies at UPEI or Maritime Christian College, offered by the Government of Prince Edward Island. Available to second-year students only.

#### Inspiring Excellence Award

2011

Award: \$1,000

Awarded to all students entering UPEI from high school who have a cumulative average of 85% based on the five courses used for admission to UPEI.

### Access PEI: Community Service Bursary

2011

Award: \$500

Awarded to students entering post secondary studies who have completed and recorded over 100 hours of community service.

2011

#### George Coles Bursary

Award: \$2,000

The George Coles Bursary is available to first time, first year student residents of Prince Edward Island enrolled in full-time studies at the University of Prince Edward Island, Holland College, Collège Acadie ÎPÉ or the Maritime Christian College, who do not have any previous post-secondary education.

#### PROJECT FUNDING

University of Prince Edward Island

2015

Award: \$2,000

Awarded to the UPEI Mathematics Achievement Program 2015-2016 school year pilot project.

PEI, Department of Workforce and Advanced Learning: Skills PEI

2015

Award: \$5,600

Shared award between the PEI Volunteers for Literacy Program, and the UPEI Mathematics Achievement Program 2015-2016 school year pilot project.

Atlantic Association for Research in the Mathematical Sciences

2015

Award: \$5,000

Awarded to the UPEI Mathematics Achievement Program 2015-2016 school year pilot project.

Atlantic Association for Research in the Mathematical Sciences

2015

Award: \$5,000 (Declined)

Offered to the UPEI Mathematics Achievement Program 2015 summer program.

#### RESEARCH EXPERIENCE

#### Current

Dalhousie University Department of Physics and Atmospheric Science 2020 - present Improved Calculation of XDM Dispersion Forces, with Application to Surfaces and Interfaces Research Lead: Dr. Erin Johnson

#### Previous

UPEI School of Mathematical and Computational Sciences On Polynomial Solutions of Linear Differential Equations Exactly Solvable Anharmonic Potentials with Variable Bumps and Depths Generalized Heun Equation and Associated Orthogonal Polynomials Research Lead: Dr. Nasser Saad

Guelph-Waterloo Physics Institute Optical Properties of the  $\alpha$ - $\mathcal{T}_3$  Semi-Dirac Model 2016 - 2018

2019

2016

Research Lead: Dr. Elisabeth Nicol

research Lead. Dr. Ensabeth Web

UPEI School of Mathematical and Computational Sciences
Generation of New Non-Linear Harmonic-Like Classes of Exceptionally Orthogonal Polynomials

'olynomials

Research Lead: Dr. Nasser Saad

UPEI School of Mathematical and Computational Sciences

2015 - 2016

Explicit Evaluation of the Polynomial Solutions of Differential Equations with Polynomial Coefficients Research Lead: Dr. Nasser Saad

UPEI Mathematics Department, UPEI Physics Department

2014 - 2015

Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Eigenvalue Problem Research Leads: Dr. Nasser Saad & Dr. Sheldon Opps

UPEI Mathematics Department

2015

Generalizing the Shifted Non-Linear Oscillator using Supersymmetric Quantum Mechanics Research Lead: Dr. Nasser Saad

UPEI Mathematics Department

2014

An Investigation of the Darboux-Crum Transformation and its Applications to Eigenvalue Problems Research Lead: Dr. Nasser Saad

UPEI Mathematics Department

2014

Finding Fast Matrix Multiplication Methods Using Genetic Algorithms

Research Lead: Dr. Gordon MacDonald

2013

PEI Cancer Treatment Centre
Finding the Mechanical Isocentre of Medical Linear Accelerators using MATLAB Image Processing
Research Leads: Dr. John Andrew & Grant MacNevin

**UPEI** Mathematics Department

2012

The Pochhammer Symbol, and Related Identities

Research Lead: Dr. Nasser Saad

### ACADEMIC WORK EXPERIENCE

Department of Physics, Dalhousie University, NS PHYC 3640 — Quantum Mechanics — Lecturer / Tutorial Instructor / Marker	2022
Department of Physics, Dalhousie University, NS PHYC 2140 — Physics-Tools: Theory — Tutorial Instructor	2020
Department of Physics, Dalhousie University, NS First-Year Physics — Lecturer / Tutorial Instructor / Resource Centre Tutor	2020
Department of Physics, University of Guelph, ON First-Year Physics — Help Room / Laboratory Instructor / Marker / Exam Invigilator	2016 - 2018
UPEI Mathematics Achievement Program, UPEI, PE Founder & Director	2015 - 2016
Physics Department, UPEI, PE Observatory Technician	2012 - 2016
Physics Department, UPEI, PE PHYS 251/252 — Introductory Astronomy — Teaching Assistant	2012 - 2016
English Language School Board, Stratford, PE Registered Tutor	2012 - 2016
Physics Department, UPEI, PE PHYS 312 — Electromagnetism $I$ — Tutorial Instructor	2015
Physics Department, UPEI, PE First-Year Physics — Teaching Assistant / Laboratory Assistant	2013 - 2014
School of Mathematical and Computational Sciences, UPEI, PE Math Help Centre Tutor	2013

#### RESEARCH CONTRIBUTIONS

#### Peer-Reviewed Articles

- [09] C. J. Nickerson, K. R. Bryenton, A. J. Price, E. R. Johnson, Comparison of DFT Dispersion Corrections for the DES15K Database. J. Phys. Chem. 127, 41, 8712–8722 (2023). doi: 10.1021/acs.jpca.3c04332
- [08] K. R. Bryenton, E. R. Johnson, Many-Body Dispersion in Model Systems and the Sensitivity of Self-Consistent Screening, J. Chem. Phys. 158, 204110 (2023). doi: 10.1063/5.0142465
- [07] K. R. Bryenton, A. A. Adeleke, S. G. Dale, E. R. Johnson, *Delocalization Error: The Greatest Outstanding Challenge in Density-functional Theory*, WIREs Comput. Mol. Sci. **13** e1631, (2023). doi: 10.1002/wcms.1631
- [06] A. J. Price, K. R. Bryenton, E. R. Johnson, Requirements for an Accurate Dispersion-corrected Density Functional, J. Chem. Phys. 154, 23, 230902, (2021). doi: 10.1063/5.0050993
- [05] K. R. Bryenton, N. Saad, Exactly Solvable Schrödinger Eigenvalue Problems for New Anharmonic Potentials with Variable Bumps and Depths, Eur. Phys. J. Plus. 135, 369, (2020). doi: 10.1140/epjp/s13360-020-00378-9
- [04] K. R. Bryenton, A. R. Cameron, K. L. A. Kirk, N. Saad, P. Strongman, N. Volodin, On the Solutions of Second-Order Differential Equations with Polynomial Coefficients: Theory, Algorithm, Application, Algorithms. 13, 286, (2020). doi: 10.3390/a13110286
- [03] J. Carbotte, **K. R. Bryenton**, E. J. Nicol, *Optical Properties of a Semi-Dirac Material*, Phys. Rev. B. **99**, 115406, (2019). doi: 10.1103/PhysRevB.99.115406
- [02] R. L. Hall, N. Saad, **K. R. Bryenton**, The D-Dimensional Softcore Coloumb Potential and the Generalized Confluent Heun Equation, J. Math. Phys. **59**, 102105, (2018). doi: 10.1063/1.5035357
- [01] K. L. A. Kirk, K. R. Bryenton, N. Saad, A Note on the Generalized and Universal Associated Legendre Equations, Commun. Theor. Phys. 70, (2018). doi: 10.1088/0253-6102/70/1/19

#### Theses

- [02] K. R. Bryenton, Optical Properties of the  $\alpha$ - $\mathcal{T}_3$  Semi-Dirac Model, M.Sc. Thesis, Guelph-Waterloo Physics Institute, University of Guelph, Guelph, Ontario, Canada, (2018). doi: 10.13140/RG.2.2.17048.24325
- [01] K. R. Bryenton, Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Eigenvalue Problem, B.Sc. Hons. Thesis, Department of Physics, University of Prince Edward Island, Charlottetown, Prince Edward Island, Canada, (2016). doi: 10.13140/RG.2.2.23129.98408

### Poster Presentations

FHI-aims Developers Meeting - Hamburg, Germany Improved Forces for the Exchange-Hole Dipole Moment Model	2023
Canadian Association of Physicists (CAP) Congress - Fredericton, NB Many-Body Dispersion in Model Systems and the Sensitivity of Self-Consistent Screening	2023
American Chemical Society Spring Meeting - Indianapolis, IN Many-Body Dispersion in Model Systems and the Sensitivity of Self-Consistent Screening	2023
Canadian Mathematical Society Winter Meeting - Toronto, ON Exactly Solvable Anharmonic Potentials with Variable Bumps and Depths	2019
Conference Presentations	
Canadian Association of Physicists (CAP) Congress - Fredericton, NB Many-Body Dispersion in Model Systems and the Sensitivity of Self-Consistent Screening	2023
American Chemical Society Spring Meeting - Indianapolis, IN Many-Body Dispersion in Model Systems and the Sensitivity of Self-Consistent Screening	2023
Canadian-Cuban-American-Mexican (C2AM) Graduate Student Physics Conference Capturing Many-Body Dispersion with Exchange-Hole Dipoles	2022
Canadian Mathematical Society (CMS) Winter Meeting - Toronto, ON Exactly Solvable Anharmonic Potentials with Variable Bumps and Depths	2019
Atlantic Universities Physics and Astronomy Conference (AUPAC) - St. John's, NL Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Eigenvalue Problem	2016
UPEI Science Undergraduate Research Conference (USURC) - Charlottetown, PE Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Eigenvalue Problem	2015
Canadian Mathematical Society (CMS) Summer Meeting - Charlottetown, PE On the Darboux-Crum Transformation and Supersymmetric Quantum Mechanics	2015
Atlantic Universities Physics and Astronomy Conference (AUPAC) - Sackville, NB On the Darboux-Crum Transformation and Supersymmetric Quantum Mechanics	2015
Science Atlantic Math and Computer Science Conference - St. John, NB Finding Fast Matrix Multiplication Methods Using Genetic Algorithms	2014
UPEI Science Undergraduate Research Conference (USURC) - Charlottetown, PE Finding Fast Matrix Multiplication Methods Using Genetic Algorithms	2014
Science Atlantic Math and Computer Science Conference - Sackville, NB On the Pochhammer Symbol, and its Generalization	2012
UPEI Science Undergraduate Research Conference (USURC) - Charlottetown, PE On the Pochhammer Symbol, and its Generalization	2012
Technical Reports	
PEI Cancer Treatment Centre - Charlottetown, PE Finding the Mechanical Isocentre of Medical Linear Accelerators Using MATLAB Image Processing	2013
Invited Talks	
University of Guelph Master of Science Presentations - Thesis Defence Optical Properties of the $\alpha$ - $\mathcal{T}_3$ Semi-Dirac Model	2018
UPEI School of Mathematical and Computational Sciences - Public Seminar Explicit Evaluation of the Polynomial Solutions of Differential Equations with Polynomial Coefficients	2016
UPEI Physics Honours Presentations - Thesis Defence Darboux-Crum Transformations, Supersymmetric Quantum Mechanics, and the Eigenvalue Problem	2015
UPEI Physics Co-op Research Presentations An Investigation of the Darboux-Crum Transformation and its Applications to Eigenvalue Problems	2015
UPEI Physics Co-op Research Presentations On Finding the Mechanical Isocentre of Medical Linear Accelerators	2014

TECHNICAL EXPERIENCE	Mathematical Systems: Markup Languages: Tools & Applications: Programming Languages:	Mathematica LATEX/TEX Git Python Javascript	MATLAB HTML Critic2 Fortran Java	Maple XML SLURM Bash	YAML Capstone Octave	CSS QTGrace C++	SDSM C
ACHIEVEMENTS	<ul> <li>Erdös Number of 4: (Nasser Saad → Mourad Ismail → Joseph Gillis → Paul Erdös)</li> <li>Passed the Canadian Association of Physicists professional practice exam</li> <li>Represented UPEI at the 2014 Science Atlantic Mathematics Competition</li> <li>Competed in the 2010 Canadian Swimming Championships</li> </ul>						
OTHER WORK EXPERIENCE	Elections Canada, PE Central Poll Supervisor  Cornwall Poolside Park, PE Aquatics Supervisor  Cornwall Poolside Park, PE Lifeguard and Swimming Instru  Safety First Training Services, C Swimming Instructor					2	2019 2014 010 - 2014 2011
COMMUNITY SERVICE	<ul> <li>Telescope Operator, Out of 7</li> <li>Coordinator, Muscular Dystr</li> <li>Coordinator, Canada-Wide S</li> <li>Torchbearer, International O</li> <li>Member, Friendship Program</li> <li>Coordinator, Horse Canada:</li> </ul>	cophy Canada, V Science Fair: Cha lympic Committ n, Prince Edward	Valk for Musc arlottetown 2 tee: Vancouve d Island Newo	cular Dystro 012 er 2010 comers Asso	ophy	wn	2014 2012 2012 2010 2010 2010

- CERTIFICATIONS ACENET Introduction to Advanced Computing
  - Government of Canada Nuclear Energy Worker
  - University of Guelph WHMIS

  - University of Guelph Academic Integrity University of Guelph Sexual Violence Referral and Support Training AODA Accessibility Service Provision

  - AODA Making Education Accessible
  - EHS Worker Health and Safety Awareness GPS Academic and Research Integrity

  - GPS Understanding and Avoiding Plagiarism
  - Counterfeit Money Detection Services Counterfeit Detection Training National Lifesaving Society Lifesaving Instructor National Lifesaving Society National Lifesaving Society Swim for Life Instructor National Lifesaving Society Swim for Life Instructor

  - National Lifesaving Society Bronze Cross National Lifesaving Society Bronze Medallion
  - Canadian Red Cross Water Safety Instructor
  - Canadian Red Cross Assistant Water Safety Instructor CPR First Aid & Safety Services CPR & Basic Life Services Level C
  - CPR First Aid & Safety Services Standard Care First Aid