

Kyle Bryenton

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EDUCATION

Dalhousie University

Ph.D. in Chemical Physics, Advisor: Dr. Erin Johnson

Halifax, NS

2020 - Current

AARMS Summer School: Dyn. Sys., DEs, and Special Functions

Instructors: Drs. James Yorke & Mourad Ismail

Charlottetown, PE

2019

Guelph-Waterloo Physics Institute, University of Guelph

M.Sc. in Physics, Advisor: Dr. Elisabeth Nicol

Guelph, ON

2016 - 2018

University of Prince Edward Island

B.Sc. Hons. in Physics & Maths, Advisors: Drs. Nasser Saad & Sheldon Opps

Charlottetown, PE

2011 - 2016

ACADEMIC PROFESSIONAL & SOCIETAL SERVICES (SELECTED)

Fritz Haber Institute *ab initio* Materials Simulations (FHIaims)

Developer

2022 - Present

Dalhousie Graduate Physics Society

Treasurer

2022 - 2024

UPEI Mathematics Society

President

2023 - 2016

UPEI Physics Society

Vice President

2014 - 2015

PAST RESEARCH EXPERIENCE (SELECTED)

- UPEI School of Mathematical and Computational Sciences 2019
PI: Dr. Nasser Saad
- Guelph-Waterloo Physics Institute 2016 - 2018
PI: Dr. Elisabeth Nicol
- UPEI Departments of Mathematics and Physics 2014 - 2016
PI: Drs. Nasser Saad & Sheldon Opps
- PEI Cancer Treatment Centre 2013
PI: Dr. John Andrew & Grant MacNevin

TEACHING EXPERIENCE (SELECTED)

Department of Physics	Dalhousie University, NS
Lecturer & Teaching Assistant — PHYC 3640 Quantum Mechanics	2022
Tutorial Instructor — PHYC 2140 Physics-Tools: Theory	2020
Lecturer & Teaching Assistant — First-Year Physics	2020
Department of Physics	University of Guelph, ON
Lab Instructor & Teaching Assistant — First-Year Physics	2016 - 2018
Departments of Physics and Mathematics	UPEI, PE
Observatory Technician	2012 - 2016
Teaching Assistant — PHYS 251/252 Introductory Astronomy	2012 - 2016
Tutorial Instructor — PHYS 312 Electromagnetism I	2015
Teaching Assistant — First-Year Physics	2013 - 2014
Math Help Centre Tutor	2013
UPEI Mathematics Achievement Program	Charlottetown, PE
Founder & Director	2015 - 2016

SCHOLARSHIPS AND AWARDS

Award Name	Value	Year	Award Name	Value	Year
CSTCC Best Contributed Talk Award	\$556	2024	R. Haines Mem. Sci. Award of Merit	N/A	2015
Mary M. Werner Mem. Scholarship	\$5,000	2024	Dr. John H. Maloney Scholarship	\$390	2015
IBM-Zerner Graduate Student Award	\$674	2024	MacLauchlan Prize for Eff. Writing	\$500	2015
CCAM Physics Conf. Feedback Award	\$30	2022	Dr. Terry McCormack Award	\$500	2015
Killam Predoctoral Scholarship	\$90,000	2020	UPEI Academic Excellence Award	\$2,000	2015
Nova Scotia Graduate Scholarship	\$60,000	2020	NSERC USRA	\$4,500	2014
Dalhousie President's Award	\$12,294	2020	UPEI Academic Excellence Award	\$1,000	2014
Walter C. Sumner Mem. Fellowship	\$16,400	2020	Island Student Award - Fourth Year	\$600	2014
CMS President's Award	\$100	2019	Chin-Hai Lin Memorial Award	\$120	2013
NSERC CCGS-M	\$17,500	2017	Physics Co-op Student of the Year	\$500	2013
Ontario Graduate Scholarship (Decl.)	\$15,000	2017	Physics Dept Prize in Modern Physics	\$200	2013
Ontario Graduate Fellowship	\$9,000	2017	Island Student Award - Third Year	\$600	2013
Jeff Praught Grad. Award in Math	\$500	2016	Austin A. Scales Scholarship	\$2,000	2012
Physics Department Graduation Prize	\$200	2016	Island Student Award - Second Year	\$400	2012
George Coles Graduate Scholarship	\$1,400	2016	Inspiring Excellence Award	\$1,000	2011
UPEI Diam. Award in Ed. Leadership	\$500	2016	PEI: Community Service Bursary	\$500	2011
UPEI Student/Alumnus of the Month	N/A	2016	George Coles Bursary	\$2,000	2011

CONFERENCE CONTRIBUTIONS (SELECTED)

Poster Presentations

Sixty-Third Sanibel Symposium - St. Augustine Beach, FL	2024
FHI-aims Developers Meeting - Hamburg, Germany	2023
Canadian Association of Physicists (CAP) Congress - Fredericton, NB	2023
American Chemical Society Spring Meeting - Indianapolis, IN	2023
Canadian Mathematical Society Winter Meeting - Toronto, ON	2019

Conference Presentations

Canadian Symp. on Theoretical and Computational Chemistry (CSTCC) - Halifax, NS	2024
Canadian Association of Physicists (CAP) Congress - Fredericton, NB	2023
American Chemical Society (ACS) Spring Meeting - Indianapolis, IN	2023
Canadian-Cuban-American-Mexican Graduate Student Physics Conference - Virtual	2022
Canadian Mathematical Society (CMS) Winter Meeting - Toronto, ON	2019
Atlantic Universities Physics and Astronomy Conference (AUPAC) - St. John's, NL	2016
Canadian Mathematical Society (CMS) Summer Meeting - Charlottetown, PE	2015
Atlantic Universities Physics and Astronomy Conference (AUPAC) - Sackville, NB	2015
Science Atlantic Math and Computer Science Conference - St. John, NB	2014
Science Atlantic Math and Computer Science Conference - Sackville, NB	2012

Technical Seminars

PEI Cancer Treatment Centre - Charlottetown, PE	2013
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Invited Talks

UPEI School of Mathematical and Computational Sciences - Seminar	2024
UPEI School of Mathematical and Computational Sciences - Seminar	2016