

Date Submitted: 2014-11-28 10:13:42

Confirmation Number: 320918

Template: CGS-Master's

Mr. Taylor Dunn

Correspondence language: English

Sex: Male

Date of Birth: 1/20

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

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Mr. Taylor Dunn

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	No
Swedish	Yes	Yes	No	No

User Profile

Research Disciplines: Physics, Biology and Related Sciences

Areas of Research: Bacterial Infections, Biological and Biochemical Mechanisms

Fields of Application: Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

Research Specialization Keywords: bacteria, cooperativity, host-pathogen, image segmentation, infection, invasion, quantitative modelling, Salmonella

Degrees

2009/9 - 2014/5 Bachelor's Honours, Bachelor of Science, Physics, University of Prince Edward Island
 Degree Status: Completed
 Supervisors: Polson, James

Recognitions

2014/9 - 2016/9 Nova Scotia Graduate Scholarship - 10,000 (Canadian dollar)
 Government of Nova Scotia
 Prize / Award

2014/5 - 2014/8 Undergraduate Student Research Award (Canadian dollar)
 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Prize / Award

2013/10 The Robert Haines Memorial Science Award of Merit
 University of Prince Edward Island
 Prize / Award

2013/5 - 2013/8 Undergraduate Student Research Award
 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Prize / Award

2013/2 ACEmat Award in Computational Modelling of Materials
 The ACEnet Institute for Materials Modeling and Simulation
 Prize / Award

2012/10 Deans' Honours List
 University of Prince Edward Island
 Distinction

2012/7	The City of Charlottetown International Ambassador Award University of Prince Edward Island Prize / Award
2012/5 - 2012/8	Undergraduate Student Research Award Natural Sciences and Engineering Research Council of Canada (NSERC) Prize / Award
2011/10	Deans' Honours List University of Prince Edward Island Distinction
2011/9	Physics Department Prize in Modern Physics University of Prince Edward Island Prize / Award
2010/10	Deans' Honours List University of Prince Edward Island Distinction
2010/3	Global Issues Excellence in Writing Competition (Winner) University of Prince Edward Island Prize / Award
2009/9	University of Prince Edward Island Full Tuition Scholarship University of Prince Edward Island Prize / Award
2009/6	High School Chemistry Prize BioVectra Prize / Award

Employment

2014/9	Teaching Assistant Dalhousie University
2011/5 - 2014/8	Student Researcher University of Prince Edward Island
2013/10 - 2014/4	Help Centre Tutor Mathematics and Statistics, University of Prince Edward Island
2012/1 - 2012/4	Student Marker University of Prince Edward Island
2011/9 - 2011/12	Help Centre Tutor Physics, University of Prince Edward Island
2010/9 - 2011/4	Laboratory Assistant University of Prince Edward Island
2010/9 - 2011/4	UPEI & STEP Tutor University of Prince Edward Island
2009/8 - 2010/9	Technical Support Representative Advantage Communications

Research Funding History

Awarded [n=1]

2014/9 - 2016/9	Nova Scotia Graduate Scholarship Principal Applicant
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Funding Sources:

2014/9 - 2016/9 Government of Nova Scotia
 Total Funding - 10,000 (Canadian dollar)
 Funding Competitive?: Yes

Completed [n=3]

2014/5 - 2014/8 Undergraduate Student Research Award

Principal Applicant

Funding Sources:

2014/5 - 2014/8 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Total Funding - 4,500 (Canadian dollar)
 Funding Competitive?: Yes

2013/5 - 2013/8 Undergraduate Student Research Award

Principal Applicant

Funding Sources:

2013/5 - 2013/8 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Total Funding - 4,500 (Canadian dollar)
 Funding Competitive?: Yes

2012/5 - 2012/8 Undergraduate Student Research Award

Principal Applicant

Funding Sources:

2012/5 - 2012/8 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Total Funding - 4,500 (Canadian dollar)
 Funding Competitive?: Yes

Event Participation

Chair, UPEI Science Undergraduate Research Conference, Conference, 2013-08-23 - 2013-08-23

Ran weekly meeting with council members to plan and organize conference. Also organized a workshop in July for teaching students how to give an effective presentation.

Organizer, UPEI Science Undergraduate Research Conference, Conference, 2012-08-23 - 2012-08-23

Attended weekly meetings with other council members to plan and organize the conference.

Community and Volunteer Activities

2009/2 Judge, Birchwood Intermediate School
 Judged student science projects for the annual science fair.

2008/9 Organizer, Terry Fox Foundation
 Helped organize the annual Terry Fox Run at Colonel Grey Senior High.

2013/5 - 2013/8 Chair, UPEI Science Undergraduate Research Conference Council
 Lead meetings and organized the 2013 University of Prince Edward Island Science Undergraduate Research Conference.

2012/5 - 2012/8 Member, UPEI Science Undergraduate Research Conference Council
 Helped organize the 2012 University of Prince Edward Island Science Undergraduate Research Conference.

2008/9 - 2009/6 Member, Students Against Drunk Driving
 Helped by organizing and participating in various school events and fundraisers.

Presentations

1. (2014). Studying polymer translocation with dissipative particle dynamics. 2014 Atlantic Undergraduate Physics and Astronomy Conference, Halifax, Canada
 Main Audience: Researcher, Keynote?: No, Competitive?: No
2. (2013). Studying polymer translocation with dissipative particle dynamics. The University of Prince Edward Island Science Undergraduate Research Conference 2013, Charlottetown, Canada
 Main Audience: Knowledge User, Keynote?: No, Competitive?: No
3. (2013). Polymer translocation dynamics through a nanopore. 2013 Atlantic Undergraduate Physics and Astronomy Conference, Moncton, Canada
 Main Audience: Researcher, Keynote?: No, Competitive?: No
4. (2012). Polymer translocation dynamics through a nanopore. The University of Prince Edward Island Science Undergraduate Research Conference 2012, Charlottetown, Canada
 Main Audience: Knowledge User, Keynote?: No, Competitive?: No
5. (2011). Conformational correlation times for a tethered polymer. The University of Prince Edward Island Science Undergraduate Research Conference 2011, Charlottetown, Canada
 Main Audience: Knowledge User, Keynote?: No, Competitive?: No

Text Interviews

2013-03-21 Two UPEI physics students take home honours from the Science Atlantic Undergraduate Physics & Astronomy Conference, University of Prince Edward Island
<http://news.upei.ca/media/2013/03/21/two-upei-physics-students-take-home-honours-science-atlantic-un>

Publications

Journal Articles

1. Polson J, Dunn T (*). (2014). Evaluating the applicability of the Fokker-Planck equation in polymer translocation: A Brownian dynamics study. The Journal of Chemical Physics. 140: 184904.
 Co-Author
 Published
 Refereed?: Yes
 Number of Contributors: 2

Dissertations

1. Studying Polymer Translocation with Dissipative Particle Dynamics and Monte Carlo Simulations. (2014). University of Prince Edward Island. Bachelor's Honours.
 Number of Pages: 67 Supervisor: James Polson