

# Taylor Dunn

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## EDUCATION

*Master of Science (Physics)*, 4.2 GPA September 2014 - August 2016  
Dalhousie University, Halifax, NS  
Thesis: Image Segmentation and Modelling of Host-Pathogen Dynamics of *Salmonella*

*Bachelor of Science (Physics, Honours)*, 4.3 GPA September 2009 - April 2014  
University of Prince Edward Island, Charlottetown, PE  
Thesis: Studying Polymer Translocation with Dissipative Particle Dynamics and Monte Carlo Simulations

## SKILLS

*Languages (proficient)*: R, Python, C, Matlab, LaTeX  
*Languages (basic)*: C#, C++, Java, Javascript  
*Software*: Vim, Git, Microsoft Office Suite, Adobe Illustrator, Adobe Indesign  
*Operating systems*: Linux, Windows, Mac OS

## EXPERIENCE

*Biostatistician* May 2017 - Present  
DGI Clinical

- Plan and conduct data analysis using appropriate statistical methods.
- Plan and conduct research on different analytic methodologies.
- Prepare and present reports of data analyses.
- Ensure data completeness, quality and confidentiality.
- Design and maintains research databases.
- Design analytic approaches consistent with objectives.

*Teaching Assistant* September 2015 - December 2015  
September 2014 - December 2014  
Dalhousie University, Department of Physics and Atmospheric Science

- Course: Introduction to Numerical Programming.
- Aided undergraduate Physics students in exploring and modelling physical systems in Python, and interpreting the results.
- Ran weekly tutorial sessions and marked biweekly assignments.
- Gave lectures when the professor was absent.

*Student Researcher* May 2011 - August 2014  
University of Prince Edward Island, Department of Physics

- Worked in a computational biophysics lab under supervision of a senior faculty member.
- Developed simulation software of molecules and analyzed data.
- Presented data in various settings and formats (posters, presentations, papers, conferences).

*Help Centre Tutor* October 2013 - April 2014  
September 2011 - December 2011  
University of Prince Edward Island

- Participated in weekly tutorial sessions where students would come for assistance in various subjects (Physics, calculus, statistics, etc.).

Laboratory/Teaching Assistant

January 2012 - April 2012  
September 2010 - April 2011

University of Prince Edward Island, Department of Physics

- Marked tests taken by first year undergraduate science students.
- Assisted with student instruction, equipment setup and marking of undergraduate Physics labs.

## PRESENTATIONS & PUBLICATIONS

- Dunn, T and Rutenberg, A (2016, January). *Modelling Host-Pathogen Dynamics of Salmonella*. Poster presented at The New Bacteriology Conference, The Royal Society, London, England.
- Dunn, T and Rutenberg, A (2015, April). *Modelling Growth in Host-Pathogen Dynamics*. Poster presented at the annual Chemical Biophysics Symposium, University of Toronto, Ontario.
- Polson, J and Dunn, T (2014, January). Evaluating the Applicability of the Fokker-Planck Equation in Polymer Translocation: A Brownian Dynamics Study. *Journal of Chemical Physics*, 140 (18), 184904.
- Dunn, T (2014, January). *Studying polymer translocation with dissipative particle dynamics*. Presentation at the annual Atlantic Undergraduate Research and Astronomy Conference, Dalhousie University, Nova Scotia.
- Dunn, T (2013, August). *Studying polymer translocation dynamics with dissipative particle dynamics*. Presentation at the annual UPEI Science Undergraduate Research Conference, University of Prince Edward Island, Prince Edward Island.
- Dunn, T (2013, February). *Polymer translocation dynamics through a nanopore*. Presentation at the annual Atlantic Undergraduate Research and Astronomy Conference, University of Moncton, New Brunswick.
- Dunn, T (2012, August). *Polymer translocation dynamics through a nanopore*. Presentation at the annual UPEI Science Undergraduate Research Conference, University of Prince Edward Island, Prince Edward Island.
- Dunn, T (2011, August). *Conformational correlation times for a tethered polymer*. Presentation at the annual UPEI Science Undergraduate Research Conference, University of Prince Edward Island, Prince Edward Island.

## HONOURS & AWARDS

Nova Scotia Graduate Scholarship	September 2014 - September 2016
Undergraduate Student Research Award (NSERC)	May 2014 - August 2014
The Robert Haines Memorial Science Award of Merit	October 2013
Undergraduate Student Research Award (NSERC)	May 2013 - August 2013
ACEmat Award in Computational Modelling of Materials	February 2013
City of Charlottetown International Ambassador Award	July 2012
Undergraduate Student Research Award (NSERC)	May 2012 - August 2012
Physics Department Prize in Modern Physics	September 2011
Global Issues Excellence in Writing Competition (winner)	March 2010
University of Prince Edward Island Full Tuition Scholarship	September 2009
High School Chemistry Prize (BioVectra)	June 2009