

Darien DeWolf

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Employment and Teaching

St. Francis Xavier University

Assistant Professor

Winter 2018

- Math 102: Graphs, Functions, Geometry
- Math 122: Calculus II for Engineers
- Math 354: Modern Algebra I

Fall 2017

- Math 105: Business Mathematics
- Math 121: Calculus I for Engineers

Mount Saint Vincent University

Part-Time Faculty Member

Summer 2017

- Math 2208: Introductory Statistics I
- Math 2209: Introductory Statistics II (Online)
- Math 2225: Mathematical Proof (Independent Study)
- Math 3326: Abstract Algebra II (Independent Study)

Winter 2017

- Math 2209: Introductory Statistics II
- Math 2209: Introductory Statistics II (Online)

Fall 2016

- Math 2208: Introductory Statistics I

Winter 2016

- Math 1113: Introductory Calculus I (Independent Study)

Summer Session II 2015

- Math 2209: Introductory Statistics II (Online)
- Math 2209: Introductory Statistics II (Online)

Winter 2015

- Math 1114: Introductory Calculus II
- Math 1103: Precalculus II (Independent Study)

Fall 2014

- Math 1102: Precalculus I
- Math 2209: Introductory Statistics II

Summer Session II 2014

- Math 2209: Introductory Statistics II (Online)

Mount Saint Vincent University

Lab Instructor (Statistics)

Dalhousie University

Teaching Assistant (Mathematics and Statistics)

Antigonish, N.S.

August 2017 – Present

Halifax, N.S.

July 2014 – August 2017

Halifax, N.S.

January 2014 – April 2014

Halifax, N.S.

September 2012 – April 2014

Mount Saint Vincent University
Teaching Assistant (Mathematics, Statistics and Chemistry)

Halifax, N.S.
September 2010 – June 2012

Education

Dalhousie University **Halifax, N.S.**
Ph.D. Mathematics *Defence: July 7, 2017, Graduation: October 2017*

- Thesis: *Restriction category perspectives of partial computation and geometry*
- Advisor: Dr. Dorette Pronk
- PDF: [On my website.](#)

Dalhousie University **Halifax, N.S.**
M.Sc. Mathematics *October 2013*

- Thesis: *On double inverse semigroups*
- Advisor: Dr. Dorette Pronk
- PDF: [On my website.](#)

Mount Saint Vincent University **Halifax, N.S.**
B.Sc. Mathematics *May 2012*

- First Class Honours
- Minor: Computer Science
- Thesis: *Commutation semigroups of dihedral groups of order $2n$ where n is even*
- Advisor: Dr. Charles Edmunds
- PDF: [On my website.](#)

Scholarships and Awards

Izaak Walton Killam Predoctoral Scholarship **Dalhousie University**
September 2016: \$25,000, September 2015: Honorary

Nova Scotia Graduate Scholarship **Dalhousie University**
September 2014 and 2015: Honorary

NSERC CGS-D3 Research Scholarship **Dalhousie University**
September 2013, 2014 and 2015: \$35,000 per year

Dalhousie University President's Award **Dalhousie University**
September 2013 and 2014: Tuition Waiver

NSERC CGS-M Research Scholarship **Dalhousie University**
December 2012: \$17,500

Frank Bennett Research Award **Mount Saint Vincent University**
May 2012

Dr. Len Parent Computer Science Award **Mount Saint Vincent University**
May 2011

Publications

Darien DeWolf, Charles Edmunds, Christopher Levy. On commutation semigroups of dihedral groups. *Semigroup Forum*. 87:467–488, 2013.
 PDF: [On my website.](#)

Preprints

“The Ehresmann-Schein-Nambooripad Theorem for Inverse Categories” (with Dorette Pronk). 2015.

PDF: [On my website.](#)

arXiv: [1507.08615](#)

“On Double Inverse Semigroups” (with Dorette Pronk). 2015.

PDF: [On my website.](#)

arXiv: [1501.03690](#)

Presentations and Talks

An Element-Based Reformulation of Restriction Monads

International Category Theory Conference

University of British Columbia, Vancouver, B.C.

[Slides \(PDF\)](#)

July 20, 2017

An Element-Based Reformulation of Restriction Monads

Foundational Methods in Computer Science

University of Ottawa, Ottawa, Ont.

June 8, 2017

Restriction Monads and Their Algebras

Union College Mathematics Conference

Union College, Schenectady, N.Y., U.S.A.

[Slides \(PDF\)](#)

December 4, 2016

Restriction Monads and Their Algebras

@Cat Seminar

Dalhousie University, Halifax, N.S.

November 15, 2016

Restriction Monads

International Category Theory Conference

Dalhousie and Saint Mary's Universities, Halifax, N.S.

[Slides \(PDF\)](#)

August 11, 2016

Restriction Monads and Category Objects

Foundational Methods in Computer Science

University of British Columbia, Vancouver, BC

[Slides \(PDF\)](#)

June 4, 2016

Restriction Categories and Monads

Dalhousie Mathematics Graduate Seminar

Dalhousie University Halifax, N.S.

November 27, 2015 (Part I)

December 4, 2015 (Part II)

Partial Functions and Categories of Partial Maps

Science Atlantic

Acadia University, Wolfville, N.S.

[Slides \(PDF\)](#)

October 24, 2015

Inverse Restriction Categories and Their Groupoids

Foundational Methods in Computer Science

Colgate University, Hamilton, N.Y., U.S.A.

[Slides \(PDF\)](#)

June 6, 2015

Double Groups and Semigroups

Science Atlantic

University of New Brunswick, St. John, N.B.

[Slides \(PDF\)](#)

October 4, 2014

On Double Inverse Semigroups

Foundational Methods in Computer Science

University of Calgary, Calgary, Alta.

[Slides \(PDF\)](#)

June 6, 2014

On Commutation Semigroups of Dihedral Groups

Honours Seminar

Dalhousie University, Halifax, N.S.

March 13, 2013

On Commutation Semigroups of Dihedral Groups*Science Atlantic*

Mount Allison University, Sackville, N.B.

[Slides \(PDF\)](#)

October 13, 2012

Other Academic Activities**AARMS/DMSGSA Summer School 2016 Student Conference**[Conference Website](#)*Organizer and Session Chair*

July 23, 2016

Funded by the Dalhousie Mathematics and Statistics Graduate Students' Association (DMSGSA), this conference was intended to complement the Summer School being run at Dalhousie University by the Atlantic Association for Research in the Mathematical Sciences (AARMS). My duties included soliciting and scheduling speakers, scheduling catering services, creating the conference website, booking the speaking space and advertising the conference to the Dalhousie mathematics community.

Dalhousie Mathematics and Statistics Graduate Students' Association Halifax, N.S.*President, Lett Bursary Representative and Department Liaison September 2013 – September 2016*

My primary role as President was overseeing the operations of the society, including its ratification. I was responsible for chairing meetings of the society, to act as co-signer for the accounts of the society and to act as a liaison between the society and the Dalhousie Association of Graduate Students. My primary role as the Lett Bursary Representative was to meet once a term with administration to fairly allocate scholarships to graduate students in need. My primary role as Department Liaison was to attend all faculty meetings and compose a graduate student newsletter informing them of changes relevant to our graduate experience.

Math Circles Nova Scotia**Halifax, N.S.***Presenter**September 2013 – June 2014*

Math Circles Nova Scotia is a community math outreach program. As a presenter for Math Circles, I visited junior high school classrooms and ran a problem solving workshop.