

Darien DeWolf

www.dariendewolf.com
admin@dariendewolf.com

Employment and Teaching

St. Francis Xavier University

Assistant Professor

Winter 2019

- Stat 101: Introductory Statistics (Online)
- Math 454: Modern Algebra II

Fall 2018

- Math 105: Business Mathematics
- Math 354: Modern Algebra I
- Stat 101: Introductory Statistics

Spring/Summer 2018

- Math 106: Calculus I (Online)
- Math 107: Calculus II (Online)

Winter 2018

- Math 102: Mathematical Concepts II
- 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 2018

- Math 2208: Introductory Statistics I

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)

Antigonish, N.S.

August 2017 – Present

Halifax, N.S.

July 2014 – August 2018

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)

Halifax, N.S.

January 2014 – April 2014

Dalhousie University

Teaching Assistant (Mathematics and Statistics)

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

Ph.D. Mathematics

Halifax, N.S.

October 2017

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

Dalhousie University

M.Sc. Mathematics

Halifax, N.S.

October 2013

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

Mount Saint Vincent University

B.Sc. Mathematics

Halifax, N.S.

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

September 2016: \$25,000, September 2015: Honorary

Dalhousie University

Nova Scotia Graduate Scholarship

September 2014 and 2015: Honorary

Dalhousie University

NSERC CGS-D3 Research Scholarship

September 2013, 2014 and 2015: \$35,000 per year

Dalhousie University

Dalhousie University President's Award

September 2013 and 2014: Tuition Waiver

Dalhousie University

NSERC CGS-M Research Scholarship

December 2012: \$17,500

Dalhousie University

Frank Bennett Research Award

May 2012

Mount Saint Vincent University

Dr. Len Parent Computer Science Award

May 2011

Mount Saint Vincent University

Publications and Preprints

The Ehresmann-Schein-Nambooripad Theorem for inverse categories (with Dorette Pronk).

Accepted July 2018: Theory and Applications of Categories.

Preprint PDF: [On my website.](#)

arXiv: [1507.08615](#)

Darien DeWolf, Charles Edmunds, Christopher Levy. On commutation semigroups of dihedral groups. *Semigroup Forum.* 87:467–488, 2013.

PDF: [On my website.](#)

DOI: [s00233-013-9483-x](#)

Commutation Semigroups of Finite Metacyclic Groups with Trivial Centre (with Charles C. Edmunds). 2018.

Preprint PDF: [On my website.](#)

arXiv: [1807.10389](#)

On double inverse semigroups (with Dorette Pronk). 2015.

Preprint PDF: [On my website.](#)

arXiv: [1501.03690](#)

Presentations and Talks

Groupoids Associated to Join Inverse Categories

Category Theory

University of the Azores, Azores, Portugal

[Slides \(PDF\)](#)

July 13, 2018

Groupoids Associated to Join Inverse Categories

CMS Summer Meeting 2018

University of New Brunswick, Fredericton, N.B.

June 4, 2018

Monads as Models of Computation

Honour's Seminar

St. Francis Xavier University, Antigonish, N.S.

January 15, 2018

Restriction Bicategories: Two Approaches

@Cat Seminar

Dalhousie University, Halifax, N.S.

[Slides \(PDF\)](#)

October 24, 2017

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** [Slides \(PDF\)](#)
Union College Mathematics Conference December 4, 2016
 Union College, Schenectady, N.Y., U.S.A.
- Restriction Monads and Their Algebras**
@Cat Seminar November 15, 2016
 Dalhousie University, Halifax, N.S.
- Restriction Monads** [Slides \(PDF\)](#)
International Category Theory Conference August 11, 2016
 Dalhousie and Saint Mary's Universities, Halifax, N.S.
- Restriction Monads and Category Objects** [Slides \(PDF\)](#)
Foundational Methods in Computer Science June 4, 2016
 University of British Columbia, Vancouver, BC
- Restriction Categories and Monads**
Dalhousie Mathematics Graduate Seminar November 27, 2015 (Part I)
 Dalhousie University Halifax, N.S. December 4, 2015 (Part II)
- Partial Functions and Categories of Partial Maps** [Slides \(PDF\)](#)
Science Atlantic October 24, 2015
 Acadia University, Wolfville, N.S.
- Inverse Restriction Categories and Their Groupoids** [Slides \(PDF\)](#)
Foundational Methods in Computer Science June 6, 2015
 Colgate University, Hamilton, N.Y., U.S.A.
- Double Groups and Semigroups** [Slides \(PDF\)](#)
Science Atlantic October 4, 2014
 University of New Brunswick, St. John, N.B.
- On Double Inverse Semigroups** [Slides \(PDF\)](#)
Foundational Methods in Computer Science June 6, 2014
 University of Calgary, Calgary, Alta.
- On Commutation Semigroups of Dihedral Groups**
Honours Seminar March 13, 2013
 Dalhousie University, Halifax, N.S.
- On Commutation Semigroups of Dihedral Groups** [Slides \(PDF\)](#)
Science Atlantic October 13, 2012
 Mount Allison University, Sackville, N.B.

Other Academic Activities

- CMS Summer Meeting 2018** **University of New Brunswick, Fredericton**
Co-organizer: Categories and Topology session June 1 – 4, 2018
Department of Mathematics, Statistics, and Computer Science
- Saint Francis Xavier University** **Antigonish, N.S.**
Recording Secretary August 30, 2017 – Present
Department of Mathematics, Statistics, and Computer Science
- Science Atlantic Math/Stats/CS Conference** [Conference Website](#)
Judge – Contributed Talk Sessions October 13 – 15, 2017
 The judging team at the Science Atlantic Math/Stats/CS Conference is responsible for deciding which

contributed talks (which are, for the most part, given by undergraduates) will receive prizes, which have monetary value.

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.