

Chelsea Battell

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EDUCATION

Ph.D. Computer Science, Thesis supervisor: Amy Felty (expected) 2020/08
University of Ottawa, Ottawa, Ontario, Canada

M.Sc. Mathematics, Thesis supervisor: Amy Felty 2016/09
University of Ottawa, Ottawa, Ontario, Canada
GPA: 3.9

B.Sc. Honours Mathematics, Minor: Computer Science 2014/04
McMaster University, Hamilton, Ontario, Canada
GPA: 3.6

EXPERIENCE

Teaching Assistant, University of Ottawa 2014/09 - present
Dept. of Mathematics and Statistics, Dept of Computer Science; Ottawa, Ontario, Canada

- Teach concepts to students and explain solutions to questions during discussion groups and grade course material for various mathematics and computer science courses

Freelance Software Developer 2013/01 - 2014/08
Hamilton, Ontario, Canada

- Updated ASP.NET intranet applications for private companies using C#

Software Developer, Midfield Interactive 2013/07 - 2013/09
Dundas, Ontario, Canada

- Developed an interactive contest entry application used in shopping malls for a back-to-school marketing campaign, implemented in C# for Windows 8

Software Developer (Co-op), Skybound Research Inc. 2012/05 - 2012/12
Waterloo, Ontario, Canada

- Assisted in the development of an experimental website interface builder implemented in C#
- Built custom graphical user interface (GUI) controls

Junior Biostatistician (Co-op, Part-time), McMaster University 2011/05 - 2012/03
Department of Surgery; Hamilton, Ontario, Canada

- Learned to use SPSS and Visual Basic for Applications (VBA) in Microsoft Excel to analyze data for resident surgeon's research projects

Student Analyst (Co-op), Cancer Care Ontario 2011/01 - 2011/04
Wait Time Information Office; Toronto, Ontario, Canada

- Designed and participated in annual presentation of Wait Time Information System results
- Learned programming basics in Visual Basic for Applications (VBA) in Microsoft Excel to simplify analyst tasks

Mathematics Teacher, Oxford Learning 2009/08 - 2011/01
Stoney Creek, Ontario, Canada

PUBLICATIONS

- Chelsea Battell and Amy Felty. The logic of hereditary Harrop formulas as a specification logic for Hybrid. In *11th International Workshop on Logical Frameworks and Meta-Languages: Theory and Practice (LFMTP)*, ACM Digital Library, 2016.

PRESENTATIONS

- Logical Frameworks and Metalanguages: Theory and Practice Workshop. *The Logic of Hereditary Harrop Formulas as a Specification Logic for Hybrid*. Porto, Portugal. June 2016.
- Ottawa Mathematics Conference. *Metatheory of the Logic of Hereditary Harrop Formulas in Coq*. Ottawa, Canada. June 2016.
- University of Ottawa Logic Seminar. *The Logic of Hereditary Harrop Formulas as a Specification Logic for Hybrid*. Ottawa, Canada. June 2016.
- McGill University Logic and Computation Seminar. *A Higher-Order Logical Framework for Reasoning about Programming Languages*. Montreal, Canada. February 2016.
- Canadian Mathematical Society Winter Meeting. *A Higher-Order Logical Framework for Reasoning about Programming Languages*. Montreal, Canada. December 2015. Poster presentation.

HONORS & AWARDS

- Ontario Graduate Scholarship (\$15 000) 2016/09
- University of Ottawa Excellence Scholarship (\$7000) 2016/09
- Programming Languages Mentoring Workshop Travel Scholarship (approx. \$1000) 2016/01
- CMS Student Committee Award for poster, CMS Winter Meeting (\$100) 2015/12
- Woody Bledsoe Student Travel Award, CADE-25 (approx. \$1400) 2015/08
- NSERC Canada Graduate Scholarship-Master's (\$17 500) 2015/05
- University of Ottawa Excellence Scholarship (\$7800) 2015/05
- Swartzen Memorial Scholarship, University of Ottawa (\$2000) 2015/04
- University of Ottawa Admission Scholarship (\$7500) 2014/09
- McMaster University Entrance Scholarship (\$750) 2008/09

VOLUNTEERING

- Canadian Math Kangaroo Contest, volunteer proctor 2016/03
- Conference on Automated Deduction (CADE-25), student volunteer 2015/08
- CMS Math Camp, volunteer proctor 2015/06