

PhD Student in Machine Learning

McGill University, Montreal, Quebec eric.crawford@cs.mcgill.ca | e2crawfo.github.io

Education

Candidate for PhD, Computer Science

Montreal, Quebec, Canada

2014-Present

McGill University

- Cumulative GPA: 4.0/4.0
- · Member of Reasoning and Learning Lab

Master of Mathematics, Computer Science

Waterloo, Ontario, Canada

2012-2014

University of Waterloo

- Cumulative GPA: 91.80%
- Member of Computational Neuroscience Research Group

Bachelor of Mathematics, Honours Computer Science, Co-op, CogSci Option

Waterloo, Ontario, Canada

2007-2012

UNIVERSITY OF WATERLOO
• Cumulative GPA: 88.07%

· Dean's Honours List with Distinction

Publications _

REFEREED

- Kroger, B., **Crawford, E.**, Bekolay, T., and Eliasmith, C. (2016). Modeling interactions between speech production and perception: speech error detection at semantic and phonological levels and the inner speech loop. *Frontiers in Computational Neuroscience*. doi:10.3389/fncom.2016.00051.
- **Crawford, E.**, Gingerich, M., and Eliasmith, C. (2015). Biologically plausible, human-scale knowledge representation. *Cognitive science*. doi: 10.1111/cogs.12261.
- **Crawford, E.**, Gingerich, M., and Eliasmith, C. (2013). Biologically plausible, human-scale knowledge representation. In *35th Annual Conference of the Cognitive Science Society, 412-417.*

Non-refereed

- **Crawford, E.** (2015). Biologically plausible, human-scale knowledge representation. Master of Mathematics Thesis, University of Waterloo.
- Voelker, A., **Crawford, E.**, and Eliasmith, C. Learning large-scale heteroassociative memories in spiking neurons. In *Unconventional Computation and Natural Computation*. *London, Ontario, 07/2014 2014*.

SOFTWARE

- Crawford, E. (2013-Present). MPI backend for the Nengo neural simulator.
- Crawford, E. (2010-Present). Contributions to Nengo neural simulator core library.

Awards & Scholarships.

Alexander Graham Bell Canada Graduate Scholarship - Doctoral - \$70,000 NSERC	2016/09-2018/09
David R. Cheriton Graduate Scholarship - \$20,000 University of Waterloo, CS	2012/09-2014/09
Alexander Graham Bell Canada Graduate Scholarship - Masters - \$17,000 NSERC	2012/09-2013/09
President's Graduate Scholarship - \$10,000 University of Waterloo, CS	2012/09-2013/09
Ontario Graduate Scholarship - \$15,000 (Declined) Gov. of Ontario	2012/09-2013/09
Computational Neuroscience Summer Program - \$4,000 University of Pennsylvania	2011/05-2011/08
Undergraduate Student Research Award - \$4,500 NSERC	2011/01-2011/05
Undergraduate Student Research Award - \$4,500 NSERC	2010/01-2010/05
Industrial Undergraduate Student Research Award - \$4,500 NSERC	2008/09-2009/01
President's Scholarship - \$2,000 University of Waterloo	2007/09-2008/01

Experience ___

Teaching Assistant Montreal, Quebec, Canada

SCHOOL OF COMPUTER SCIENCE, McGILL UNIVERSITY

2014-2016

- Implemented game-playing platform for AI course project, ran tournament between submitted agents.
- Held office hours, marked papers, gave tutorials.

Teaching Assistant Waterloo, Ontario, Canada

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF WATERLOO

2012-2014

• Held office hours, marked papers, gave tutorials.

Research Assistant Philadelphia, Pennsylvania, USA

DEPARTMENT OF OTORHINOLARYNGOLOGY, UNIVERSITY OF PENNSYLVANIA

2011/05-2011/08

· Implemented computational methods for identifying neural receptive fields based on neurophysiological data.

Lead Developer Waterloo, Ontario, Canada

COMPUTATIONAL NEUROSCIENCE RESEARCH GROUP, UNIVERSITY OF WATERLOO

2010/01-2010/05, 2011/01-2011/05

- Designed and implemented GPU backend for Nengo neural simulation package.

Developer Waterloo, Ontario, Canada

ACRONYM SOFTWARE 2009/05-2009/09

• Implemented UI features for wood and masonry engineering software in C++ and C#.