

Eric Crawford

PHD STUDENT IN MACHINE LEARNING

McGill University, Montreal, Quebec

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Education

Candidate for PhD, Computer Science

Montreal, Quebec, Canada

McGILL UNIVERSITY

2014-Present

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

Master of Mathematics, Computer Science

Waterloo, Ontario, Canada

UNIVERSITY OF WATERLOO

2012-2014

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

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

Waterloo, Ontario, Canada

UNIVERSITY OF WATERLOO

2007-2012

- Cumulative GPA: 88.07%
- Dean's Honours List with Distinction

Publications

REFEREED

- **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. Masters 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

Postgraduate Scholarship - Doctoral - \$42,000 , NSERC	2016/09-2018/09
David R. Cheriton Graduate Scholarship - \$20,000 , University of Waterloo, CS	2012/09-2014/09
Alexander Graham Bell CGS - 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#.