Greg d'Eon

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Education

University of British Columbia Sept 2019 – present
PhD in Computer Science
Advisors: Kevin Leyton-Brown, James Wright (UAlberta)

University of Waterloo Sept 2017 – Aug 2019
Master's of Mathematics (Computer Science)
Advisors: Edith Law, Kate Larson

Dalhousie University Sept 2012 – Dec 2016
Bachelor of Computer Engineering

Computer Science Publications

Conference Papers

Greg d'Eon, Neil Newman, and Kevin Leyton-Brown. "Understanding Iterative Combinatorial Auction Designs via Multi-Agent Reinforcement Learning." EC 2024.

Greg d'Eon, Sophie Greenwood, Kevin Leyton-Brown, and James R. Wright. "How to Evaluate Behavioral Models." AAAI 2024. *Oral Presentation (2% of submissions).*

Hedayat Zarkoob, **Greg d'Eon**, Lena Podina, and Kevin Leyton-Brown. "Better Peer Grading through Bayesian Inference." AAAI 2023.

Greg d'Eon, Jason d'Eon, Kevin Leyton-Brown, and James R. Wright. "The Spotlight: A General Method for Discovering Systematic Errors in Deep Learning Models." FAccT 2022.

Greg d'Eon and Kate Larson. "Testing Axioms Against Human Reward Divisions in Cooperative Games." AAMAS 2020.

Blaine Lewis*, **Greg d'Eon***, Andy Cockburn, and Daniel Vogel. "KeyMap: Improving Keyboard Shortcut Vocabulary Using Norman's Mapping." CHI 2020.

Johann Wentzel, **Greg d'Eon**, and Daniel Vogel. "Improving Virtual Reality Ergonomics Through Reach-Bounded Non-Linear Input Amplification." CHI 2020. *Honorable Mention for Best Paper (top 5% of submissions).*

Greg d'Eon, Joslin Goh, Kate Larson, and Edith Law. "Paying Crowd Workers for Collaborative Work." CSCW 2019.

Peer Reviewed Workshop Papers

Greg d'Eon, Kate Larson, and Edith Law. "The Effects of Single-Player Coalitions on Reward Divisions in Cooperative Games." Games, Agents, and Incentives Workshop (AAMAS), 2019.

Work Experience

Auctionomics October 2020 – present
Software Consultant

- Creating simulation tools to help clients analyze the game-theoretic robustness of their bidding strategies in high-stakes auctions.

NewAE Technology Jan 2017 – Aug 2017; May 2016 – Aug 2016
Software Engineer

- Developed open-source software for the ChipWhisperer platform using Python, C, and Verilog, adding software features and a wide range of sample firmware.
- Wrote tutorials and helped to deliver training courses for the ChipWhisperer software, including a 30-student course at Black Hat USA.

Dalhousie University Sept 2015 – Dec 2015
Research Assistant with Dr. Guy Kember

- Developed efficient algorithms for simulating head impacts, using a combination of finite element methods and partial differential equations adapted from existing work on acoustics.

Dalhousie University Jan 2014 – Apr 2015; May 2014 – Aug 2014
Research Assistant with Dr. Jeff Dahn

- Designed and built inexpensive battery testing equipment and software to emulate commercial lab equipment, allowing faster and more efficient data collection.

Awards

Research Positions

- Simons Institute Visiting Graduate Student (Learning and Games Program, April-May 2022)

Scholarships

- NSERC CGS-D ($105,000 over 3 years, 2019-2022)
- UBC 4-Year Fellowship ($72,800 over 4 years, 2019-2023; declined 2019-2022 to accept NSERC CGS-D)
- Ontario Graduate Scholarship ($15,000; 2018)
- Waterloo President's Graduate Scholarship ($5,000, 2018)
- NSERC CGS-M ($17,500, 2017)
- Waterloo President's Graduate Scholarship ($10,000, 2017)
- John G. Bruce Scholarship ($10,000, 2014; renewed 2015)
- Dalhousie Entrance Scholarship ($5,000/year; 2012 – 2015)

Distinctions

- Graduate TA Award (UBC Computer Science, 2022)
- Distinguished Teaching Assistantship Award (Waterloo Computer Science, 2018)
- Dalhousie University Medal (Top Academic Standing, Dalhousie Computer Engineering, 2017)
- IEEE Atlantic Section Medal (Top Academic Standing; Dalhousie Computer Engineering, 2017)
- Kenneth Marginson Award (Top Academic Standing; Dalhousie Class of Engineering, 2014)
- Bob Walter Award (Student Vote; Dalhousie Class of Engineering, 2014)

Teaching Experience

Instructional Assistant

- Duties included designing course syllabi, lectures, assignments, and tests; teaching lectures and lab sessions; managing class discussions; holding office hours; maintaining peer grading software; and marking assignments and tests.

University of British Columbia

Modelling Human Strategic Behaviour (CPSC 532)	Jan – Apr 2022
Computers and Society (CPSC 430)	Jan – Apr 2021
Computers and Society (CPSC 430)	Sept – Dec 2021
Introduction to Cognitive Systems (COGS 200)	Sept – Dec 2020

University of Waterloo

Human-Computer Interaction (CS 449)	May – Aug 2019
Intro to Computer Programming 1 (CS105)	Jan – Apr 2019
Intro to Computer Programming 1 (CS105)	Sept – Dec 2018
Human-Computer Interaction (CS449)	May – Aug 2018
Intro to Computer Programming 2 (CS106)	Jan – Apr 2018
Intro to Computer Programming 1 (CS105)	Sept – Dec 2017

Dalhousie University

C++ Programming (ENGM3282)	Sept – Dec 2016
C Programming (ENGM1081)	Sept – Dec 2015

Teaching Assistant

- Duties included grading up to 120 assignments or 100 tests each week.

Dalhousie University

Vector Calculus (ENGM2101)	May – Aug 2016
C++ Programming (ENGM3282)	Sept – Dec 2015
C Programming (ENGM1081)	Sept – Dec 2014
Differential Equations (ENGM2022)	Jan – Apr 2015
Linear Algebra (ENGM1041)	Jan – Apr 2014
C Programming (ENGM1081)	Sept – Dec 2013

Academic Service

Reviewing:

- 2024: IEEE Transactions on Games, IJCAI
- 2023: FORC, ICLR, IEEE Transactions on Games, JMLR, UAI
- 2022: EC, CHI
- 2021: NeurIPS (workshops)
- 2019: CHI, CSCW
- 2018: CHI (late-breaking work)

Conference volunteering roles:

- 2023: EC
- 2019–2020: NeurIPS Women in Machine Learning (WiML) workshop