

MAX OLAN SMITH

OCTOBER 14, 2019

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RESEARCH INTERESTS

Deep Learning, Reinforcement Learning, Continual Learning, Multi-Agent Systems, Empirical Game Theory

EDUCATION

University of Michigan, Ann Arbor, MI (2017–present)
Ph.D. in Computer Science (degree expected 2022)
Advisor: Michael P. Wellman

University of Michigan, Ann Arbor, MI (2014–2016)
B.S.Eng. in Computer Science
Summa Cum Laude

AWARDS AND HONORS

- 2018** NSF Graduate Research Fellowship Honorable Mention
- 2016** EECS Outstanding Research Award
- 2015** 3rd Place, Information and Technology Services: Mobile App Challenge
- 2014** 1st Place, Microsoft Developer’s Challenge
- 2014** IBM Sponsor Prize, MHacks IV

PROFESSIONAL EXPERIENCE

- 2017 May – 2017 Aug** **Research Intern**, Montréal Institute for Learning Algorithms (PI: Aaron Courville)
 - Built new multi-agent dataset and environment, and performed preliminary studies.
 - Set-up video generation pipeline, studying neural network degeneracies.
- 2016 May - 2016 Aug** **Software Engineering Intern**, Google
 - Expanded conversion model to used advanced features improving model performance.
 - Implemented RPC for serving simulation data to partners.
- 2015 May – 2015 Jul** **Research and Development Intern**, Sandia National Laboratories
 - Designed and implemented learning to rank solution for system models.
 - Created census data model with support for geographical demographic queries.

- 2013 Aug – **Research Aide II**, Michigan State University: CREATE for STEM Institute
2014 May
- Documented and studied successful pedagogies through STEM classroom observations.
 - Built program to clean and process survey results saving hours of work per observation.

TEACHING EXPERIENCE

COURSE

- 2017 Fall **Graduate Student Instructor**, EECS 498/598: Reinforcement Learning
First offering of course
- 2016 Winter **Instructional Aide**, EECS 398: Computing for Computer Scientists
First offering of course
- 2016 Fall **Instructional Aide**, EECS 280: Programming and Data Structures
2016 Winter
2015 Fall

WORKSHOP

- 2018 **Workshop Instructor**, Big Data Summer Institute
- 2018 **Workshop Instructor**, Exercise & Sports Science Initiative, Sports Analytics Summer Camp

PROFESSIONAL SERVICE

- 2018, 2019 Program Committee, NeurIPS Deep Reinforcement Learning Workshop
- 2017 Co-Poster Chair, Michigan AI Symposium: AI for Society
- 2016 Volunteer, Stanford Crowd Course

JOURNAL PUBLICATIONS

- [J1] [Long Term Effects of Pair Programming](#)
Max O. Smith, Andrew Giugliano, and Andrew DeOrio
IEEE Transactions on Education (Special Issue: Computing in Education) 61.3 (Aug. 2017), pp. 187–194.

CONFERENCE PUBLICATIONS

- [C1] [No Press Diplomacy: Modeling Multi-Agent Gameplay](#)
Philip Paquette, Yuchen Lu, Steven Bocco, **Max O. Smith**, Satya Ortiz-Gagne, Jonathan K. Kummerfeld, Satinder Singh, Joelle Pineau, and Aaron Courville
Thirty-third Conference on Neural Information Processing Systems. NeurIPS. Vancouver, Canada, Dec. 2019.
- [C2] [Speaker Naming in Movies](#)
Mahmoud Azab, Mingzhe Wang, **Max O. Smith**, Noriyuki Kojima, Jia Deng, and Rada Mihalcea
Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies. NAACL. New Orleans, United States of America, June 2018.

- [C3] [A Unified Framework for Automatic Wound Segmentation and Analysis with Deep Convolutional Neural Networks](#)
Changhan Wang, Xinchun Yan, **Max O. Smith**, Kanika Kochkar, Marci Rubin, Stephen M. Warren, James Wrobel, and Honglak Lee
37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. EMBC. Milan, Italy, Aug. 2015.