Laura (Wendlandt) Burdick

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Education

Ph.D., Computer Science and Engineering   (Expected) 2020
University of Michigan, Ann Arbor, MI
Advisor: Dr. Rada Mihalcea
Certificates: Graduate Teaching Certificate

M.S., Computer Science and Engineering   April 2017
University of Michigan, Ann Arbor, MI

B.S., Computer Science   May 2015
Grove City College, Grove City, PA

Publications

"Identifying Visible Actions in Lifestyle Vlogs"
Ignat, O., **L. Burdick**, J. Deng, R. Mihalcea
Association for Computational Linguistics, 2019

"Factors Influencing the Surprising Instability of Word Embeddings"
Wendlandt, L., J. K. Kummerfeld, R. Mihalcea
North American Chapter of the Assoc. for Computational Linguistics, 2018

"Entity and Event Extraction from Scratch Using Minimal Training Data"
Wendlandt, L., S. Wilson, O. Ignat, C. Welch, L. Zhang, M. Wang, J. Deng, R. Mihalcea
Text Analysis Conference, 2018

"Multimodal Analysis and Prediction of Latent User Dimensions"
Wendlandt, L., R. Mihalcea, R. Boyd, J. Pennebaker
Social Informatics, 2017

"Data Science in Service of Performing Arts: Applying Machine Learning to Predicting Audience Preferences"
Abernethy, J., C. Anderson, C. Dai, J. Dryden, E. Schwartz, W. Shen, J. Stroud, **L. Wendlandt**, S. Yang, D. Zhang
Bloomberg Data for Good Exchange, 2016

Grants and Awards

Rackham Outstanding Graduate Student Instructor Award   2019
For dedication and excellence in teaching

Google ExploreCSR Grant, $35k (2018), $18k (2019)   2018, 2019
Co-PI on grants to develop a program introducing undergraduate women to computer science research

**Center for Research on Learning and Teaching
Gilbert Whitaker Fund, $5,725**   2018
Co-PI on grant to develop a new one-credit computer science class and enhance the quality of student learning

Grants and Awards, Cont.	**National Science Foundation GRFP Honorable Mention** Honorable mention for Graduate Research Fellowship Program	2017
	John David Ormerod Memorial Award Top-ranked computer science major in class	2013

Teaching & Advising	**Primary Instructor, Discover CS (EECS 198)** Designed and taught a new one-credit freshmen-level class	Fall 2018
	Co-instructor, Natural Language Processing (EECS 498/595) Lectured, planned curriculum, held office hours, and graded *Ranked by School of Information students in top quartile of classes* *for overall quality and amount learned*	Fall 2017
	TA, Data Structures and Algorithms (EECS 281) Taught two discussion sections, held office hours, graded, and wrote exams and projects	Fall 2015, Winter 2016

Center for Research on Learning & Teaching in Engineering

Engineering Teaching Consultant	Fall 2019
Practice Teaching Facilitator, Grad. Student Instructor Orientation	Winter 2019
Practice Teaching Facilitator, Active Learning Practice	Winter 2019
Co-facilitator, "Addressing Problematic Team Dynamics" seminar	Winter 2019
Co-facilitator, "Making Teamwork Work" seminar	Fall 2018

Student Research Advising

Yiming Zhang, Undergraduate, *Named Entity Recognition for AIDA*	Summer 2019
Yumou Wei, Master's Student, *Named Entity Recognition for AIDA*	Summer 2019
Hui Liu, Master's Student, *Graph Embeddings for Text*	Fall 2018
Mingyuan Zhang, Undergraduate, *Embedding Stability*	Summer 2018
Rui Lin, Undergraduate, *Twitter Geolocation*	Spring 2018
Po-Heng Chen, Undergraduate, *Twitter Geolocation*	Spring 2018

Other

Guest instructor, ICOS Big Data Summer Camp	2018
Guest lecturer, Information Retrieval (EECS 486)	2018
Personal academic tutor (Grove City College)	2013-2015
TA, Engineering Physics I and II Labs (Grove City College)	2012
TA, Non-engineering Physics Lab (Grove City College)	2013
Grader, Computer Programming I and II (Grove City College)	2013, 2015
Grader, Computer Architecture and Organization (Grove City College)	2014

Talks	A Gentle Introduction to Word Embeddings for the
	     Computational Social Sciences (CSS), *a workshop at the*
	     European Symposium Series on Societal Challenges in CSS
		Sept. 2019

	Pydata Ann Arbor Meetup: Lightning Talk	July 2019
	Ann Arbor / Detroit NLPers Meetup	Aug. 2018
	Midwest Speech and Language Days	May 2018
	Decision Consortium, Psychology Department, University of Michigan	May 2016

Employment	**Research Assistant, MAJORANA Research Team**	2013

Research Assistant, MAJORANA Research Team — 2013
Participated in Computational Astronomy and Physics REU, contributed to international physics research team studying neutrino detection, created extensible modeling capabilities and models for data processing software

Software Development Intern, Amazon — 2014
Developed complete web application for use in Amazon's Fulfillment Centers, tested with users, prepared code for global production

Professional Activities

Service
ACL Committee to search for and select first Equity Director — 2019
Student Co-Chair, Student Research Workshop, NAACL-HLT — 2019

Local Service
Co-chair, a2-dlearn (Ann Arbor deep learning symposium) — 2019
Unconference Session Facilitator, Michigan AI Symposium — 2018
Editorial Board Member, Michigan AI Blog — 2018

Journal Reviewer
Computer Speech & Language — 2017, 2019

Program Committee Member
Association for Computational Linguistics (ACL) — 2019
North American Chapter of the ACL (NAACL-HLT) — 2019
Association for the Advancement of Artificial Intelligence (AAAI) — 2019
Dialog System Technology Challenges 7 (DSTC7), AAAI Workshop — 2019
Affective Computing and Intelligent Interaction (ACII) — 2019
Empirical Methods in Natural Language Processing (EMNLP) — 2018, 2019

Outreach

Co-director, Girls Encoded (GE) — 2016 - *Current*
Focused on recruiting and retaining women in computer science

Co-director, GE Explore CS Research — 2018 - *Current*
Yearly research mentoring program introducing undergraduate women and underrepresented minorities to computer science research

Co-director and Instructor, GE Middle School Outreach — 2018 - 2019
Weekly computer science lessons for middle schoolers

Co-organizer, Women in Computing Celebration — 2017
Opera about Ada Lovelace and lightning talks by women in computing

Co-founder, CS KickStart — 2016
Summer camp introducing freshmen women to computer science

K-12 Outreach
Hour of Code Volunteer — 2017
N. American Computational Linguistics Olympiad (NACLO) Grader — 2016
Panel discussion organizer for GE High School Education Day — 2016

Outreach, Cont.

University-Level Outreach

Advisor for CS KickStart	2017
Funding Committee for GE funding of student-led initiatives	2017
Python tutorial instructor for CS KickStart	2017, 2018, 2019
Organizer of Women in Computing Panels	2017, 2018, 2019
ECSEL mentor for incoming graduate students	2016, 2018
Mentor for "Lunch & Lab with a Grad"	2016, 2017, 2018, 2019

Relevant Coursework

Graduate Level
Natural Language Processing, Machine Learning, Advanced AI, Computational Complexity, Continuous Optimization Methods, Parallel Computing

Undergraduate Level
Algorithms, Introduction to AI, Ethics in the Computing Profession, Foundations of CS, Operating Systems, Object-Oriented and Advanced Programming, Data Communications and Networking, Data Structures and Algorithms, Computer Architecture and Organization, Database Management Systems, Discrete Math

(CV compiled 2 September 2019.)