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

"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

National Science Foundation GRFP Honorable Mention   2017
Honorable mention for Graduate Research Fellowship Program

Teaching & Advising	**Primary Instructor, Discover CS (EECS 198)**	Fall 2018
	Designed and taught a new one-credit freshmen-level class	
	Co-instructor, Natural Language Processing (EECS 498/595)	Fall 2017
	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	
	TA, Data Structures and Algorithms (EECS 281)	Fall 2015,
	Taught two discussion sections, held office hours, graded, and wrote exams and projects	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

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

Employment	**Research Assistant, UM LIT research group**	2015 - 2019
	Worked in natural language processing, machine learning, computational social science, word embeddings, word semantics, and data science with Dr. Rada Mihalcea	
	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 application with users, prepared code for global production, actively participated in a software development team using agile methodology	

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
	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, AAAI Workshop	2019
	Affective Computing and Intelligent Interaction (ACII)	2019
	Empirical Methods in Natural Language Processing (EMNLP)	2018, 2019
	Conferences / Workshops Attended	
	North American Chapter of the ACL (NAACL-HLT)	2018, 2019
	Midwest Speech and Language Days	2017, 2018, 2019
	International Conference on Computational Linguistics (COLING)	2018
	Social Informatics (SocInfo)	2017
	Bloomberg Data for Good Exchange	2016
	CRA-W Grad Cohort Workshop	2016

Talks	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

Outreach	**Co-director, Girls Encoded (GE)**	2016-2019
	Focused on recruiting and retaining women in computer science	
	Co-director, GE Explore CS Research	2018-2019
	Year-long 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	

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

K-12 Outreach

Hour of Code Volunteer	2017
N. American Computational Linguistics Olympiad Grader	2016
Panel discussion organizer for GE High School Education Day	2016

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 16 July 2019.)