Laura (Wendlandt) Burdick

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Education

University of Michigan (Ann Arbor, MI)
Ph.D., Computer Science and Engineering   (Expected) 2020
   Advisor: Dr. Rada Mihalcea
M.S., Computer Science and Engineering   April 2017

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

Employment

UM Artificial Intelligence Lab   Sept. 2015 - Present
Research Assistant, LIT research group
Working in natural language processing, machine learning, computational social science, word embeddings, word semantics, and data science with Dr. Rada Mihalcea

Majorana Research Team   May - Aug. 2013
Research Assistant
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

Amazon   May - Aug. 2014
Software Development Intern
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

Publications

Conference Papers
"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

Workshop Papers
"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

Teaching	**Awards and Training**	
	Rackham Outstanding Graduate Student Instructor Award	2019
	Recognizes the efforts and accomplishments of GSIs who	
	demonstrate dedication and excellence as teachers	
	U-M Graduate Teacher Certificate	Winter 2019

University of Michigan Classes

EECS 198: Discover CS	Fall 2018
Primary instructor for a new class at UM, designed for	
incoming freshmen women to explore CS	
EECS 498/595, SI 561: Natural Language Processing	Fall 2017
Co-instructor – involved lecturing, planning curriculum,	
holding office hours, and grading	
(ranked by School of Information students in top quartile	
of classes for overall quality and amount learned)	
EECS 281: Data Structures and Algorithms	Fall 2015,
Graduate Student Instructor – involved teaching	Winter 2016
discussion sections, holding office hours, grading,	
and writing exams and projects	

Work with CRLT-Engin (Center for Research on Learning & Teaching in Engineering)

Engineering Teaching Consultant	Fall 2019
Practice Teaching Facilitator	Winter 2019
Graduate Student Instructor Orientation,	
Active Learning Practice	
Co-facilitator for "Making Teamwork Work" and	Fall 2018,
"Addressing Problematic Team Dynamics" Seminars	Winter 2019
Continuing Education for Student Instructors	

Other

Python tutorial instructor at CS KickStart	2017, 2018, 2019
Guest instructor for ICOS Big Data Summer Camp	2018
Guest lecturer for Information Retrieval (EECS 486)	2018
Teaching assistant for CS and Physics (Grove City College)	2012-2015
Personal academic tutor (Grove City College)	2013-2015

Grants Received	**ExploreCSR, $35,000 (2018-2019), $18,000 (2019-2020)**	2018-2020
	Google grant for undergraduate computer science research-focused workshops for women	
	Gilbert Whitaker Fund, $5,725	2018
	Center for Research on Learning and Teaching grant for activities that enhance the quality of student learning at the University of Michigan	

Talks	**Pydata Ann Arbor Meetup: Lightning Talk**	July 2019
	"Lessons from Multilingual Data"	
	Ann Arbor / Detroit NLPers Meetup	Aug. 2018
	"Factors Influencing the Surprising Instability of Word Embeddings"	
	Midwest Speech and Language Days	May 2018
	"Factors Influencing the Surprising Instability of Word Embeddings"	
	Decision Consortium	May 2016
	University of Michigan, Psychology Department	
	"Inferring User Attributes from Images"	

Professional Activities	**Service**	
	ACL Committee to Search for and Select an Equity Director	2019
	Student Co-Chair, Student Research Workshop, NAACL-HLT	2019
	Co-chair, a2-dlearn (Ann Arbor deep learning symposium)	2019
	Unconference Session Facilitator, Michigan AI Symposium	2018
	Editorial Board Member, Michigan AI Blog	2018
	Reviewing	
	Reviewer, ACL, NAACL-HLT, DSTC7 (AAAI Workshop), AAAI, ACII, EMNLP	2019
	Reviewer, EMNLP	2018
	Reviewer, *Computer Speech & Language*	2017
	Conferences / Workshops Attended	
	NAACL-HLT	June 2018, June 2019
	Midwest Speech and Language Days	April 2017, May 2018, May 2019
	COLING	Aug. 2018
	Social Informatics (SocInfo)	Sept. 2017
	Bloomberg Data for Good Exchange	Sept. 2016
	CRA-W Grad Cohort Workshop	April 2016

Awards	**NSF GRFP - Honorable Mention**	2017
	Honorable mention for the National Science Foundation's Graduate Research Fellowship Program	
	ACM Programming Team	2013
	One of three juniors on a team that placed 13th of 126 teams at the 2013 ACM-ICPC E. Central N. America Regional Contest	
	UNC at Chapel Hill Capstone Award	2013
	Best final presentation summer 2013 REU - $500	
	John David Ormerod Memorial Award	2013
	Top-ranked computer science major in sophomore class	
	Grove City College Scroll and Key	2015
	Academic honor society honoring top 7% of senior class	
	O∆K and Mortar Board Honor Societies	2015
	Recognition for scholarship, leadership, and service	
	Grove City College Trustee Scholarship	2011-2015
	Top academic scholarship awarded to 24 freshmen	
	Grove City College Presidential Scholarship	2012-2015
	Recognition for GPA greater than 3.6	

| Outreach | **Girls Encoded** (girlsencoded.eecs.umich.edu) | 2016-2017 |

Girls Encoded (girlsencoded.eecs.umich.edu)   2016-2017
Co-director, Event Coordinator, Student Funding Committee
Focused on recruiting and retaining women in computer science. Initiatives include Women in Computing seminars, industry panels featuring female software engineers, and high-school outreach.

CS KickStart (cskickstart.eecs.umich.edu)   2016-2017
Co-organizer & Industrial Relations 2016, Advisor 2017
Annual summer camp introducing freshmen women to computer science. More than 100 applications received each year.

Hour of Code   2017
Volunteer in Elementary Classroom

North American Computational Linguistics Olympiad   2016
Graduate Student Grader

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

References

Available upon request.

(CV compiled 15 July 2019.)