Laura (Wendlandt) Burdick

wenlaura@umich.edu   http://laura-burdick.github.io

Education

Ph.D., Computer Science and Engineering (Expected) 2020
University of Michigan, Ann Arbor, MI
Advisor: Dr. Rada Mihalcea
Certificates: U-M Graduate Teaching Certificate
    Description: www.crlt.umich.edu/um.gtc/description

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

"Analyzing Connections Between User Attributes, Images, and Text"
L. Burdick, R. Mihalcea, R. L. Boyd, J. W. Pennebaker
Cognitive Computation, 2019

"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. L. Boyd, J. W. 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

Grants and Awards, Cont.	**Center for Research on Learning and Teaching Gilbert Whitaker Fund, $5,725** Co-PI on innovative teaching grant to develop EECS 198, a new one-credit computer science class	2018
	Honorable Mention, National Science Foundation Graduate Research Fellowship Program	2017
	John David Ormerod Memorial Award Top-ranked computer science major in class	2013
Employment	**Research Assistant, MAJORANA Research Team** Participated in Computational Astronomy and Physics REU (Research Experience for Undergraduates), contributed to international physics research team studying neutrino detection, created extensible modeling capabilities and models for data processing software	2013
	Software Development Intern, Amazon Developed complete web application for use in Amazon's Fulfillment Centers, tested with users, prepared code for global production	2014
Teaching & Advising	**Primary Instructor, Discover CS (EECS 198)** Designed and taught a new one-credit freshmen-level class (Python programming language)	Fall 2018
	Co-instructor, Natural Language Processing (EECS 498/595) Lectured 25% of class, planned curriculum, held office hours, graded (Python programming language) *Ranked by School of Information students in top quartile of classes for overall quality and amount learned*	Fall 2017
	Graduate Student Instructor, Data Structures and Algorithms (EECS 281) Taught two discussion sections, held office hours, graded, wrote exams and projects (C++ programming language)	Fall 2015, Winter 2016
	Center for Research on Learning & Teaching in Engineering	
	Engineering Teaching Consultant	Fall 2019
	Co-facilitator, "It's Time for Action: Generating an Active Learning Plan" seminar	Fall 2019
	Co-facilitator, "Addressing Problematic Team Dynamics" seminar	Winter 2019
	Co-facilitator, "Making Teamwork Work" seminar	Fall 2018
	Practice Teaching Facilitator, Grad. Student Instructor Orientation	Winter 2019
	Practice Teaching Facilitator, Active Learning Practice	Winter & Fall 2019
	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

Teaching & Advising, Cont.	**Student Research Advising, Cont.**	
	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, Discover CS (EECS 198)	2019
	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, UM	May 2016

Professional Activities	**Service**	
	Association for Computational Linguistics (ACL) Committee to search for and select first Equity Director	2019
	Student Co-Chair, Student Research Workshop, North American Chapter of the ACL (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 the Advancement of Artificial Intelligence (AAAI)	2019, 2020
	Association for Computational Linguistics (ACL)	2019
	North American Chapter of the ACL (NAACL-HLT)	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*
	https://girlsencoded.eecs.umich.edu/	
	Focused on recruiting and retaining women in computer science	

Outreach, Cont.	**Co-director, GE Explore CS Research**	2018 - *Current*
	Yearly research mentoring program introducing undergraduate women and underrepresented minorities to computer science research	
	Co-founder, CS KickStart	2016
	<http://cskickstart.eecs.umich.edu/>	
	Summer camp introducing freshmen women to computer science	
	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	
	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
	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
	Ensemble for Computer Science and Engineering Ladies (ECSEL) mentor for incoming graduate students	2016, 2018, 2019
	Mentor for "Lunch & Lab with a Grad"	2016, 2017, 2018, 2019
Skills	Python, C++, C++ STL, Java, C, Objective C, Bash, Linux, Mac OS, Windows OS, HTML, CSS, JavaScript, jQuery	
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 22 October 2019.)