

Laura (Wendlandt) Burdick

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<http://laura-burdick.github.io>

Education	<p>Ph.D., Computer Science and Engineering University of Michigan, Ann Arbor, MI “Understanding Word Embedding Stability Across Languages and Applications” <i>Advisor: Dr. Rada Mihalcea</i> <i>Certificates: U-M Graduate Teaching Certificate</i> Description: www.crlt.umich.edu/um.gtc/description</p> <p>M.S., Computer Science and Engineering University of Michigan, Ann Arbor, MI</p> <p>B.S., Computer Science Grove City College, Grove City, PA</p>	<p>August 2020</p> <p>April 2017</p> <p>May 2015</p>
Publications	<p>“Analyzing Connections Between User Attributes, Images, and Text” L. Burdick, R. Mihalcea, R. L. Boyd, J. W. Pennebaker <i>Cognitive Computation</i>, February 2020</p> <p>“Identifying Visible Actions in Lifestyle Vlogs” Ignat, O., L. Burdick, J. Deng, R. Mihalcea <i>Association for Computational Linguistics</i>, 2019</p> <p>“Building a Flexible Knowledge Graph to Capture Real-World Events” L. Burdick, M. Wang, O. Ignat, S. Wilson, Y. Zhang, Y. Wei, R. Mihalcea, J. Deng <i>Text Analysis Conference</i>, 2019</p> <p>“Factors Influencing the Surprising Instability of Word Embeddings” Wendlandt, L., J. K. Kummerfeld, R. Mihalcea <i>North American Chapter of the Assoc. for Computational Linguistics</i>, 2018</p> <p>“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 <i>Text Analysis Conference</i>, 2018</p> <p>“Multimodal Analysis and Prediction of Latent User Dimensions” Wendlandt, L., R. Mihalcea, R. L. Boyd, J. W. Pennebaker <i>Social Informatics</i>, 2017</p> <p>“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 <i>Bloomberg Data for Good Exchange</i>, 2016</p>	

Grants and Awards	Rackham Outstanding Graduate Student Instructor Award For dedication and excellence in teaching	2019
	Google ExploreCSR Grant, \$35k (2018), \$18k (2019) Co-PI on grants to develop a program introducing undergraduate women and underrepresented minorities to computer science research	2018, 2019
	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 (Grove City College)	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) <i>Ranked by School of Information students in top quartile of classes for overall quality and amount learned</i>	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
	Student Research Advising Yiming Zhang (Undergraduate) and Yumou Wei (Master's), <i>Rare Named Entity Recognition</i>	Summer & Fall 2019
	Hui Liu (Master's) <i>Graph Embeddings for Text</i>	Fall 2018
	Mingyuan Zhang (Undergraduate), <i>Embedding Stability</i>	Summer 2018
	Rui Lin (Undergraduate), <i>Twitter Geolocation</i>	Spring 2018
	Po-Heng Chen (Undergraduate), <i>Twitter Geolocation</i>	Spring 2018

Teaching & Advising, Cont.	Center for Research on Learning & Teaching in Engineering	
	Engineering Teaching Consultant	Fall 2019, Winter 2020
	Co-facilitator, “Leading Problem Solving Sessions” seminar	2020
	Co-facilitator, “Teaching Engineering: Getting Started” seminar	2020
	Co-facilitator, “It’s Time for Action: Generating an Active Learning Plan” seminar	2019, 2020
	Co-facilitator, “Addressing Problematic Team Dynamics” seminar	2019
	Co-facilitator, “Making Teamwork Work” seminar	2018
	Practice Teaching Facilitator, Grad. Student Instructor Orientation	2019
	Practice Teaching Facilitator, Active Learning Practice	Winter & Fall 2019, 2020
	Other	
	Guest instructor, Natural Language Processing (EECS 595)	2019
	Guest instructor, Discover CS (EECS 198)	2019
	Guest instructor, Interdisciplinary Committee on Organizational Studies (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
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
	Webmaster, LIT Research Group (http://lit.eecs.umich.edu)	2016 - <i>Current</i>
	Journal Reviewer	
	<i>Computer Speech & Language</i>	2017, 2019
	Program Committee Member	
	Association for the Advancement of Artificial Intelligence (AAAI)	2019, 2020
	Dialog System Technology Challenges (DSTC), AAAI Workshop	2019, 2020
	Association for Computational Linguistics (ACL)	2019, 2020
	North American Chapter of the ACL (NAACL-HLT)	2019
	Affective Computing and Intelligent Interaction (ACII)	2019
	Empirical Methods in Natural Language Processing (EMNLP)	2018, 2019
Talks	UM Artificial Intelligence Lab Honors Competition	Oct. 2019
	A Gentle Introduction to Word Embeddings for the Computational Social Sciences (CSS), <i>a workshop at the European Symposium Series on Societal Challenges in CSS</i>	Sept. 2019

Talks, Cont.	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, U-M	May 2016
Outreach	Co-director, Girls Encoded (GE)	2016 - <i>Current</i>
	https://girlsencoded.eecs.umich.edu/	
	Focused on recruiting and retaining women in computer science	
	Co-director, GE Explore CS Research	2018 - <i>Current</i>
	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	
	Additional 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
	Additional 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)	2016, 2018, 2019
	mentor for incoming graduate students	
	Mentor for “Lunch & Lab with a Grad”	2016, 2017, 2018, 2019
Skills	C++, C++ STL, Python, Java, C, Objective C, Bash, Linux, Mac OS, Windows OS, Git, 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 July 27, 2020.)