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: 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

"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
Text Analysis Conference, 2019

"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

Center for Research on Learning and Teaching
Gilbert Whitaker Fund, $5,725 2018
Co-PI on innovative teaching grant to develop EECS 198, a new one-credit computer science class

Honorable Mention, National Science Foundation 2017
Graduate Research Fellowship Program

John David Ormerod Memorial Award 2013
Top-ranked computer science major in class

Employment

Research Assistant, MAJORANA Research Team 2013
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

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

Teaching & Advising

Primary Instructor, Discover CS (EECS 198) Fall 2018
Designed and taught a new one-credit freshmen-level class (Python programming language)

Co-instructor, Natural Language Processing (EECS 498/595) Fall 2017
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

Graduate Student Instructor, Fall 2015,
Data Structures and Algorithms (EECS 281) Winter 2016
Taught two discussion sections, held office hours, graded, wrote exams and projects (C++ programming language)

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

Teaching & Advising, Cont.

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 lecturer, 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

Talks

UM Artificial Intelligence Lab Honors Competition	Oct. 2019
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
Dialog System Technology Challenges (DSTC), AAAI Workshop	2019, 2020
Association for Computational Linguistics (ACL)	2019
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

Outreach

Co-director, Girls Encoded (GE) 2016 - *Current*
https://girlsencoded.eecs.umich.edu/
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-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) 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, 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 November 6, 2019.)