

Laura (Wendlandt) Burdick

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

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| Education | Ph.D., Computer Science and Engineering (Expected) 2020 University of Michigan, Ann Arbor, MI <i>Advisor: Dr. Rada Mihalcea</i> <i>Certificates: U-M Graduate Teaching Certificate</i> 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 | <p>“Analyzing Connections Between User Attributes, Images, and Text” L. Burdick, R. Mihalcea, R. L. Boyd, J. W. Pennebaker <i>Cognitive Computation</i>, Forthcoming</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> |

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

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| Teaching & Advising, Cont. | Student Research Advising | |
| | Yiming Zhang, Undergraduate, <i>Rare Named Entity Recognition</i> | Summer 2019 |
| | Yumou Wei, Master's Student, <i>Rare Named Entity Recognition</i> | Summer 2019 |
| | Hui Liu, Master's Student, <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 |
| | 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 |
| 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 |
| | 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 |
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| 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 |
| | 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 |

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| Outreach | Co-director, Girls Encoded (GE) 2016 - <i>Current</i> https://girlsendcoded.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 |
| Skills | Advisor for CS KickStart 2017 |
| | Funding Committee for GE funding of student-led initiatives 2017 |
| Relevant Coursework | 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 |
| | 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 December 5, 2019.)