

# Amandalynne Paullada | Curriculum Vitae

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## RESEARCH INTERESTS

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Natural language processing, Language justice, Critical data studies, Digital health equity

## EDUCATION

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| <b>Ph.D. in Computational Linguistics, University of Washington</b><br><i>Advisor:</i> Fei Xia   | 2016 – 2021 |
| <b>M.A. in Computational Linguistics, Brandeis University</b>  | 2013 – 2015 |
| <b>B.A. in Linguistics, University of California, Santa Cruz</b><br><i>Study abroad, full immersion:</i> Universitat de Barcelona – 2011 | 2008 – 2012 |
| <b>B.A. in Economics, University of California, Santa Cruz</b>   | 2008 – 2012 |

## PROFESSIONAL EXPERIENCE

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| <b>Postdoctoral Scholar-Fellow, Biomedical Informatics and Medical Education</b><br>University of Washington School of Medicine<br><i>Funding:</i> National Library of Medicine Biomedical Informatics Research Trainee Program | 2022 – present |
| <b>Research Assistant, Biomedical Informatics and Medical Education</b><br>University of Washington School of Medicine<br><i>PI:</i> Trevor Cohen   | 2019 – 2021    |
| <b>Research Intern, Semantic Scholar</b><br>Allen Institute for Artificial Intelligence<br><i>Mentors:</i> Sergey Feldman, Kyle Lo  | Fall 2018      |
| <b>Data Science for Social Good Student Fellow</b><br>University of Washington eScience Institute<br><i>Team:</i> Seattle Mobility Index  | Summer 2018    |
| <b>Data Science &amp; NLP Intern</b><br>Cambia Health Solutions, Seattle WA   | Summer 2017    |
| <b>Researcher</b><br>Smart Information Flow Technologies, Lexington MA  | 2015 – 2016    |
| <b>Research Intern</b><br>Smart Information Flow Technologies, Lexington MA   | 2014 – 2015    |
| <b>Lexical Data Processing Intern</b><br>PANLEX Project, San Francisco CA   | Summer 2013    |

## PUBLICATIONS

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Angelina McMillan-Major, **Amandalynne Paullada**, Yacine Jernite, and Hugging Face. An interactive exploratory tool for the task of hate speech detection. *HCI+ NLP 2022*, page 11, 2022.

Courtney Mansfield, **Amandalynne Paullada**, and Kristen Howell. Behind the mask: Demographic bias in name detection for pii masking. In *Proceedings of the Second Workshop on Language Technology for Equality, Diversity and Inclusion*, pages 76–89, 2022.

**Amandalynne Paullada**, Inioluwa Deborah Raji, Emily M Bender, Emily Denton, and Alex Hanna. Data and its (dis) contents: A survey of dataset development and use in machine learning research. *Patterns*, 2(11):100336, 2021.

Inioluwa Deborah Raji, Emily M Bender, **Amandalynne Paullada**, Emily Denton, and Alex Hanna. AI and the everything in the whole wide world benchmark. In *Thirty-fifth Conference on Neural Information Processing Systems Datasets and Benchmarks Track (Round 2)*, 2021.

Naomi Tachikawa Shapiro, **Amandalynne Paullada**, and Shane Steinert-Threlkeld. A multilabel approach to morphosyntactic probing. *arXiv preprint arXiv:2104.08464*, 2021.

**Amandalynne Paullada**, Inioluwa Deborah Raji, Emily M Bender, Emily Denton, and Alex Hanna. Data and its (dis) contents: A survey of dataset development and use in machine learning research. *Workshop on Machine Learning Retrospectives, Surveys & Meta-Analyses, NeurIPS*, 2020. **Best Paper Award Recipient**.

**Amandalynne Paullada**, Bethany Percha, and Trevor Cohen. Improving Biomedical Analogical Retrieval with Embedding of Structural Dependencies. In *Proceedings of the 19th SIGBioMed Workshop on Biomedical Language Processing*, pages 38–48. Association for Computational Linguistics, 2020.

Ian Kennedy, Christian Hess, **Amandalynne Paullada**, and Sarah Chasins. Racialized Discourse in Seattle Rental Ad Texts. *Social Forces*, 08 2020.

Rachael Tatman, Leo Stewart, **Amandalynne Paullada**, and Emma Spiro. Non-lexical Features Encode Political Affiliation on Twitter. In *Proceedings of the Second Workshop on NLP and Computational Social Science*, pages 63–67. Association for Computational Linguistics, 2017.

Rachael Tatman and **Amandalynne Paullada**. Social Identity and Punctuation Variation in the # BlueLivesMatter and # BlackLivesMatter Twitter Communities [poster]. In *33rd Northwest Linguistics Conference, Vancouver, British Columbia*, 2017.

David McDonald, Scott Friedman, **Amandalynne Paullada**, Rusty Bobrow, and Mark Burstein. Extending Biology Models with Deep NLP over Scientific Articles. In *AAAI-16 Workshop on Knowledge Extraction from Text*, 2016.

David McDonald, Scott Friedman, Mark Burstein, Alex Plotnick, **Amandalynne Paullada**, Rusty Bobrow, and Brent Cochran. Learning by Reading: Extending & Localizing Against a Model. In *Fourth Annual Conference on Advances in Cognitive Systems*, 2016.

Peggy Wu, Tammy Ott, **Amandalynne Paullada**, Derek Mayer, Jeremy Gottlieb, and Peter Wall. Cognitive Workload Assessment through Zero Intrusion Detection Methods. In *3rd International Conference on Safety Management and Human Factors*, 2016.

Peggy Wu, Tammy Ott, **Amandalynne Paullada**, Derek Mayer, Jeremy Gottlieb, and Peter Wall. ATHENA – a zero-intrusion no contact method for workload detection using linguistics, keyboard dynamics, and computer vision [poster]. In *18th International Conference on Human-Computer Interaction*, 2016. Best Poster Award.

## PRESENTATIONS AND PANELS

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### Ethical considerations for secondary use of medical data (Poster)

UW Medical Data Science Symposium

February 2023

### Content moderation has a language problem (Panelist)

RightsCon

June 2022

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|---|---------------|
| <b>Who and what gets counted? Contextual requirements for datasets (Panelist)</b> |               |
| Building the NIST AI Risk Management Framework: Workshop #2                       | March 2022    |
| <b>FATE concerns in NLP (Panelist)</b>  |               |
| MSR & MILA Workshop   | April 2021    |
| <b>Digital Humanities Day (Panelist)</b>  |               |
| University of Washington  | February 2021 |
| <b>Multi-label Element Extraction for Evidence Based Medicine</b>                 |               |
| Second Widening NLP Workshop (talk)   | June 2018     |
| 12th Women in Machine Learning Workshop (poster)                                  | December 2017 |
| <b>Totes Adorbs: Identity Effects in Colloquial English Truncation (Talk)</b>     |               |
| USC Undergraduate Linguistics Conference  | October 2012  |

## INVITED TALKS

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|   |               |
|---|---------------|
| <b>The ‘Real World’ of Language Technology: A Case Study of Machine Translation</b> |               |
| UW Biomedical and Health Informatics Seminar Series (BIME 590)                      | November 2022 |
| <b>Pervasive Data Ethics for Computational Research (PERVADE) Webinar Series</b>    |               |
| <i>Host:</i> Katie Shilton (University of Maryland)                                 | July 2022     |
| <b>Data and its (dis)contents</b>   |               |
| UW Computational Linguistics Lab (Treehouse)  | February 2021 |
| <b>Using Datasets Wisely</b>  |               |
| Cisco UX & Metrics Reading Group  | February 2021 |
| Drift AI  | January 2021  |
| Rsqr AI   | October 2020  |

## TEACHING

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|  |                       |
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| <b>Instructor, University of Washington</b>                          |                       |
| Seminar: Biomedical Applications of Language Technology (BIME 591 B) | Spring 2023           |
| <b>Teaching Assistant, University of Washington</b>                  |                       |
| Introduction to Language and Society (LING 233)                      | Spring 2018           |
| Statistical Approaches to Natural Language Processing (LING 572)     | Winter 2018           |
| Introduction to Linguistic Thought (LING 200)                        | Fall 2016 – Fall 2017 |
| <b>Teaching Assistant, Brandeis University</b>                       |                       |
| Critical Reading and Analytical Writing for ESL Students (ESL 1a)    | Fall 2014             |
| Analytical Writing for ESL Students (ESL 1a)                         | Summer 2014           |
| Morphology (LING 115a)   | Spring 2014           |
| Syntactic Theory (LING 120)  | Fall 2013             |
| <b>Tutor, Brandeis University</b>                                    |                       |
| English Language Program 1-on-1 Writing Tutorial                     | 2013 – 2014           |

## GUEST LECTURES

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### Strategies for Thinking About Research Ethics

Professional Development in Biomedical Informatics (BIME 586)

Winter 2022, 2023

*Hosts:* Trevor Cohen, John Gennari

### Data and its (dis)contents

Value Sensitive Data Processing (LING 575)

Spring 2022

*Host:* Margaret Mitchell

### Examining Data and Data Practices in Machine Learning

NLP and the Real World (LING 575)

Winter 2021

*Host:* Fei Xia

## SERVICE

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### Workshop Co-chair

ACL Student Research Workshop @ ACL-IJCNLP 2021

### Conference and Workshop Organizing

NLM T15 Training Conference 2023 Scientific Committee, Stanford University

NWLC 2020, Virtual

AFLA 2017, University of Washington

WCCFL 2012, University of California, Santa Cruz

### Journal Club Organizing

UW Medical AI Journal Club (2023)

### Mentorship

*'Should I do a PhD?'* Mentorship Panel, UW Computational Linguistics Lab (2021)

*Graduate School in Linguistics* Mentorship Panel, UW Linguistics Department (2021)

Outreaching Grads Program, University of Washington (2020–2021)

*Surviving Graduate School* Group Mentoring Session, ACL 2020

### Journal Reviewer

Frontiers in Psychology

Information, Communication and Society

Journal of Biomedical Informatics

Nature Machine Intelligence

### Conference Reviewer

The Web Conference 2023

NeurIPS 2022 (Ethics reviewer)

FAccT 2021, 2022

ACL 2019, 2020 (Secondary reviewer)

CoNLL 2019, 2020

### Workshop Reviewer

BioNLP 2023

NLP-OSS 2020

WiNLP 2019, 2020

### Student Governance

Senator, UW Graduate and Professional Senate (2019–2020)

Secretary, Linguistic Society of UW (2017–2019)

## SCHOLARSHIPS AND AWARDS

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### **Excellence in Linguistic Research Graduate Fellowship**

UW Department of Linguistics, Fall 2021

### **Travel Grant**

Widening NLP Workshop, June 2018

Women in Machine Learning Workshop, December 2017

### **Diversity Scholarship**

PyData Seattle, June 2017

## PUBLIC SPEAKING & TUTORIALS

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### **AI THAT WRITES 101**

Authored by AI Podcast

February 2023

*Hosts:* Stephen Follows, Eliel Camargo-Molina

### **Lost in Translation: When Machines Learn Language**

TEC Talks Podcast

July 2022

*Host:* Kirsten Martin, Notre Dame Technology Ethics Center (ND TEC)

### **Coding Best Practices**

UW Computational Linguistics Lab (Treehouse)

March 2021, Sept. 2018, February 2018

### **Introduction to Praat Scripting**

University of Washington Phonetics Lab

October 2017

### **Introduction to IPython**

Boston PyLadies Meetup Group

November 2015

### **Introduction to NLTK**

Boston Python User Group

October 2015

### **Computing Linguistic Similarity with Python**

Boston PyLadies Meetup Group

April 2015

## SKILLS

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### **Programming**

Languages: Python, Java

Version control: Git

### **NLP & Machine Learning**

AllenNLP, PyTorch, NLTK

### **Languages**

English (Native)

Spanish (Fluent)

French (Intermediate)

Russian (Intermediate)

Korean (Heritage speaker)

## PROFESSIONAL DEVELOPMENT

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|   |               |
|---|---------------|
| <b>UW Biomedical Research Integrity Program (Virtual)</b>   | Summer 2022   |
| <b>FAccT Doctoral Consortium (Virtual)</b>                  | March 2021    |
| <b>Rising Stars in EECS, UC Berkeley (Virtual)</b>          | November 2020 |
| <b>Machine Learning Summer School (MLSS), Madrid, Spain</b> | August 2018   |
| <b>Python Conference (PyCon)</b>                            |               |
| Portland, OR  | May 2017      |
| Montréal, QC  | April 2015    |
| Montréal, QC  | April 2014    |

## VOLUNTEERING

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|--|----------------|
| Ravenna Pop-up Kitchen, Seattle WA                       | 2018 – present |
| Green Seattle Day, Seattle WA                            | 2017, 2019     |
| Big Brothers Big Sisters of Massachusetts Bay, Boston MA | 2015 – 2016    |
| Harvard Square Homeless Shelter, Cambridge MA            | 2016           |

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