

# Marisa J. Hudspeth

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## Education

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**University of Massachusetts Amherst** – Amherst, MA

Expected: May 2027

MS/PhD, Computer Science

Advisor: [Brendan O'Connor](#)

**Rhodes College** – Memphis, TN

May 2022

BS, Computer Science

BA, Greek and Roman Studies, Concentration: Latin

Advisors: Ross Sowell, Geoffrey Bakewell

## Selected Publications & Talks

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- **Marisa Hudspeth**, Patrick J. Burns, and Brendan O'Connor. [Contextual morphologically-guided tokenization for Latin encoder models](#). To appear in *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (EACL 2026)*
    - Earlier version in *Tokenization Workshop at Forty-Second International Conference on Machine Learning (TokShop @ ICML 2025)*
  - Patrick J. Burns, **Marisa Hudspeth**, Creston Brooks, David Bamman, Brendan O'Connor. Recovering 34 Billion Latin Words from AI Training Data: Or Philology's Collaborative Demands at Computational Scale. Talk at *2026 Annual Meeting of the Society for Classical Studies (SCS 2026)*.
  - **Marisa Hudspeth**, Patrick J. Burns, and Brendan O'Connor. RespondeoQA: a Benchmark for Bilingual Latin-English Question Answering. Preprint, submitted to *Fifteenth biennial Language Resources and Evaluation Conference (LREC 2026)*.
  - Catherine Arnett, **Marisa Hudspeth**, Brendan O'Connor. [Evaluating Morphological Alignment of Tokenizers in 70 Languages](#). In *Tokenization Workshop at Forty-Second International Conference on Machine Learning (TokShop @ ICML 2025)*
  - Ankita Gupta, **Marisa Hudspeth**, Jacquie Kurland, and Brendan O'Connor. [Automated main concept generation for narrative discourse assessment in aphasia](#). In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Findings of ACL 2025)*
    - Also appears in *The 7th Workshop on Narrative Understanding (WNU 2025)* and *Clinical Aphasiology Conference (CAC 2025)*
  - **Marisa Hudspeth**, Brendan O'Connor, and Laure Thompson. 2024. [Latin Treebanks in Review: An Evaluation of Morphological Tagging Across Time](#). In *Proceedings of the 1st Workshop on Machine Learning for Ancient Languages (MLAAL @ ACL 2024)*.
  - **M. Hudspeth**, S. Balali, C. Grimm and R. T. Sowell. [Effects of Interfaces on Human-Robot Trust: Specifying and Visualizing Physical Zones](#). 2022 *International Conference on Robotics and Automation (ICRA 2022)* (Outstanding Interaction Paper Award Finalist)

## Research Experience

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### **EleutherAI**

*Research Intern*

May 2025 – Present

- Research in multilingual and low-resource tokenization and pretraining
- Mentor: [Catherine Arnett](#)

### **University of Massachusetts Amherst**

*Graduate Research Assistant*

Sept 2022 – Present

- Researcher in SLANG lab for Computational Social Science, Cultural Analytics, Digital Humanities
- Advisor: [Brendan O'Connor](#)

### **Rhodes College**

*Undergraduate Research Assistant*

Jun 2019 – Aug 2022

- Research in trust and privacy in Human-Robot Interaction
- Advisor: [Ross Sowell](#)

### **University of Illinois Urbana Champaign**

*CRA DREU Research Intern*

May – Aug 2021

- Research in dialogues, chatbots, embodied AI
- Mentor: [Julia Hockenmaier](#)

## Skills

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- Programming languages: python, C, C++
- Frameworks/libraries: Megatron, Hugging Face Tokenizers and Transformers, CLTK/NLTK, SpaCy, PyTorch, NumPy
- Language model pretraining, finetuning, multilingual NLP, low resource NLP, tokenization

## Teaching Experience

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### **University of Massachusetts Amherst**

*Graduate Teaching Assistant*

- Graduate Natural Language Processing, Fall 2025
- Computer Systems Principles, Summer 2023

### **Rhodes College**

*Undergraduate Teaching Assistant*

- Artificial Intelligence, Spring 2022
- Elementary Latin, Spring 2021

### *Grader*

- Programming Fundamentals, Spring 2019, Fall 2020
- Object Oriented Programming, Fall 2019, Spring 2020, Spring 2021, Spring 2022
- Data Structures and Algorithms, Fall 2021

## Awards and Honors

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- Passed Qualifying Exam (Portfolio) with distinction, May 2025
- Jack U. Russell Award for Outstanding Senior in Computer Science in 2021 – 2022 (Rhodes College)
- Phi Beta Kappa, Junior Inductee, May 2021 – Present
- Upsilon Pi Epsilon, April 2021 – Present
- Eta Sigma Phi, February 2020 – Present
- Jack U. Russell Award for Outstanding Work in First-Year Mathematics in 2018 – 2019 (Rhodes College)

## Leadership

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### **University of Massachusetts Amherst**

- CSWomen PhD Co-Chair, 2025
- CSWomen Social Events Coordinator, 2024