

ENORA RICE

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EDUCATION

- 2027 (Exp.) **PhD** in Computer Science from University of Colorado Boulder (GPA:3.92)
Advisors: Katharina von der Wense and Alexis Palmer
- 2025 **MS** in Computer Science from University of Colorado Boulder
Advisors: Katharina von der Wense and Alexis Palmer
- 2022 **BA** in Computer Science and Linguistics from Bryn Mawr College
Advisor: Jonathan Washington

TEACHING

- Fall 2025 **Teaching Assistant, Carnegie Mellon University**
LTI 11724 Human Language For Artificial Intelligence: held weekly recitations, graded coursework, conducted office hours, and helped update and reformulate assignments. Supported approximately 20 students.
- Spring 2025 **Instructor of Record, University of Colorado Boulder**
CSCI 3832 Natural Language Processing: taught weekly lectures with custom slides, updated course material for modern NLP methods, designed a new midterm. Supported approximately 80 students.
- 2022–2025 **Teaching Assistant, University of Colorado Boulder**
CSCI 4308 Software Engineering Project (Fall 2024); *CSCI 3832 Natural Language Processing*; *CSCI 3002 Fundamentals of Human Computer Interaction*; *CSCI 1300 Introduction to Programming*. Responsibilities included teaching weekly recitations, grading, and 1-5 hours per week of office hours. Supported 80-800 students.
- 2020–2021 **Teaching Assistant, Haverford College**
CMSC245 Principles of Programming Languages; *CMSC240 Principles of Computer Organization*. Held weekly office hours and graded student assignments. Supported approximately 25 students.

RESEARCH POSITIONS

- 2022–Present **Graduate Researcher, University of Colorado Boulder**
Research focused on bridging the gap between natural language processing and language documentation for low-resource languages. Developed computational methodologies grounded in user-centered design to prioritize language community needs. Resulted in ongoing doctoral dissertation and multiple publications.
- 2025–2026 **Research Programmer Analyst, Carnegie Mellon University Language Technologies Institute (advised by Lori Levin)**
Project aimed to automate interlinear glossing and morphological segmentation for extremely low-resource languages. Engineered a contrastively trained dual-encoder architecture aligning words with constituent morphemes in a shared embedding space, paired with an autoregressive decoder utilizing a user-extensible codebook to prevent hallucinated outputs. Resulted in a publication introducing the framework.

Summer 2021 **Research Assistant, University of Southern California Institute for Creative Technologies (advised by Benjamin Nye)**
Project aimed to scale access to diverse STEM mentors for underrepresented students via the MentorPal virtual mentorship platform. Engineered an NLP module to dynamically generate personalized follow-up questions. Applied named entity recognition, dependency parsing, and semantic similarity to mentor video transcripts to identify relevant conversational topics. Enhanced interactive engagement by anticipating user inquiries and filtering redundant content. Resulted in expanded platform capabilities and a co-authored publication on virtual mentor authoring systems.

INTERNSHIPS

2022–2024 **Natural Language Processing Consultant, CanopySpeak**
Designed a multilingual parsing pipeline (Spanish, Mandarin) to power content generation for a medical language education platform.

Summer 2022 **Data Science Research Fellow, Internal Revenue Service (Research, Applied Analytics, and Statistics Data Management Division)**
Expanded IRS multilingual filing tools by training tax-domain mBERT model, improving classification of tax documents and increasing accessibility for non-native English users. Developed BERT-based classifier for 10k+ IRS.gov webpages, boosting content discoverability and accessibility for multilingual audiences.

Summer 2020 **Digital Technology Intern, Bryn Mawr Library and Information Technology Services**
Supported digital initiatives for an Indigenous language revitalization initiative by assisting with project documentation, resource development, and community-centered technology planning.

MENTORSHIP

2026 Aidan Kelley, Masters Student Research Assistant
2026 Maija Grimes, Undergraduate Directed Reading Program Mentee

AWARDS, FELLOWSHIPS AND GRANTS

2026 Outstanding Research Paper Award (\$500), University of Colorado Boulder
2025 Nelson A. Prager Family and James H. Martin Endowed Graduate Fellowship (\$1000), University of Colorado Boulder
2025 Graduate Student and Professional Student Government Travel Grant (\$500), University of Colorado Boulder
2022 Departmental Fellowship (\$4000), University of Colorado Boulder
2022 Civic Digital Fellowship (\$7000, ~ 4% acceptance rate), Coding it Forward
2022 Magna Cum Laude, Bryn Mawr College

SERVICE

- 2024–Present Reviewer for ARR (Mar 2026, Jan 2026, May 2025), NAACL SRW 2025, ComputEL-7
- 2024–2025 Volunteer Docent at the University of Colorado Boulder Media Archaeology Lab
- 2025 Student Volunteer at NAACL 2025
- 2023 Graduate Peer Mentor
- 2023, 2025 Shared Task Organizer for the *ACL Workshop on NLP for Indigenous Languages of the Americas
- 2023 Workshop Organizer for the *ACL Workshop on NLP for Indigenous Languages of the Americas

PUBLICATIONS

Preprints¹

- [P1] **Enora Rice***, Morris Alper*, Bhargav Shandilya*, Alexis Palmer and Lori Levin. *CWoMP: Morpheme Representation Learning for Interlinear Glossing*. 2026. arXiv: [2603.18184](https://arxiv.org/abs/2603.18184) [cs.CL].

Conferences

- [C1] Michael Ginn, Lindia Tjuatja, **Enora Rice**, Ali Marashian, Maria Valentini, Jasmine Xu, Graham Neubig and Alexis Palmer. “Massively Multilingual Joint Segmentation and Glossing”. In: *Proceedings of the 64th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. July 2026. *To Appear*. (**Acceptance rate: 19%**).
- [C2] Ali Marashian, **Enora Rice**, Luke Gessler, Alexis Palmer and Katharina von der Wense. “From Priest to Doctor: Domain Adaptation for Low-Resource Neural Machine Translation”. In: *Proceedings of the 31st International Conference on Computational Linguistics*. Jan. 2025. (**Acceptance rate: 30.1%**).
- [C3] **Enora Rice**, Katharina von der Wense and Alexis Palmer. “Interdisciplinary Research in Conversation: A Case Study in Computational Morphology for Language Documentation”. In: *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing*. Nov. 2025. (**Acceptance rate: 22.16%**).
- [C4] Michael Ginn, Lindia Tjuatja, Taiqi He, **Enora Rice**, Graham Neubig, Alexis Palmer and Lori Levin. “GlossLM: A Massively Multilingual Corpus and Pretrained Model for Interlinear Glossed Text”. In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*. Nov. 2024. (**Acceptance rate: 20.8%**).
- [C5] **Enora Rice**, Ali Marashian, Luke Gessler, Alexis Palmer and Katharina von der Wense. “TAMS: Translation-Assisted Morphological Segmentation”. In: *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Aug. 2024. (**Acceptance rate: 21.3%**).

Workshops

¹Equal contribution indicated by “*”

- [W1] **Enora Rice**, Ali Marashian, Hannah Haynie, Katharina Wense and Alexis Palmer. “Untangling the Influence of Typology, Data, and Model Architecture on Ranking Transfer Languages for Cross-Lingual POS Tagging”. In: *Proceedings of the 1st Workshop on Language Models for Underserved Communities (LM4UC 2025)*. May 2025.
- [W2] William Xie, **Enora Rice** and Nikolaus Correll. “On the Dual-Use Dilemma in Physical Reasoning and Force”. In: *Reliable Robotics Workshop at Robotics: Science and Systems* (June 2025).
- [W3] Michael Ginn, Ali Marashian, Bhargav Shandilya, Claire Post, **Enora Rice**, Juan Vásquez, Marie Mcgregor, Matthew Buchholz, Mans Hulden and Alexis Palmer. “On the Robustness of Neural Models for Full Sentence Transformation”. In: *Proceedings of the 4th Workshop on Natural Language Processing for Indigenous Languages of the Americas (AmericasNLP 2024)*. June 2024.

Non-Refereed

- [N1] Ona De Gibert, Robert Pugh, Ali Marashian, Raul Vazquez, Abteen Ebrahimi, Pavel Denisov, **Enora Rice**, Edward Gow-Smith, Juan Prieto, Melissa Robles, Rubén Manrique, Oscar Moreno, Angel Lino, Rolando Coto-Solano, Aldo Alvarez, Marvin Agüero-Torales, John E. Ortega, Luis Chiruzzo, Arturo Oncevay, Shruti Rijhwani, Katharina Von Der Wense and Manuel Mager. “Findings of the AmericasNLP 2025 Shared Tasks on Machine Translation, Creation of Educational Material, and Translation Metrics for Indigenous Languages of the Americas”. In: *Proceedings of the Fifth Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP)*. May 2025.
- [N2] Abteen Ebrahimi, Manuel Mager, Shruti Rijhwani, **Enora Rice**, Arturo Oncevay, Claudia Baltazar, María Cortés, Cynthia Montaña, John E. Ortega, Rolando Coto-solano, Hilaria Cruz, Alexis Palmer and Katharina Kann. “Findings of the AmericasNLP 2023 Shared Task on Machine Translation into Indigenous Languages”. In: *Proceedings of the Workshop on Natural Language Processing for Indigenous Languages of the Americas (AmericasNLP)*. July 2023.