

ENORA RICE

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RESEARCH INTERESTS

Multilingual and low-resource NLP; computational morphology and typology; NLP for language documentation; user-centered design

EDUCATION

- 2027 (Exp.) **PhD** in Computer Science, University of Colorado Boulder
Dissertation: Automating Linguistic Annotation for Very Low-Resource Languages: User-Centered Approaches to Computational Typology and Morphology
Advisors: Alexis Palmer and Katharina von der Wense
Additional Committee Members: Lori Levin, Maria Antoniak and Hannah Haynie
- 2025 **MS** in Computer Science, University of Colorado Boulder
- 2022 **BA** in Computer Science and Linguistics, Bryn Mawr College
Senior Thesis: Towards Effective Machine Translation For a Low-Resource Agglutinative Language: Karachay-Balkar
Advisor: Jonathan Washington

PUBLICATIONS

Peer-Reviewed Conferences

- [C1] Morris Alper, **Enora Rice**, Bhargav Shandilya, Alexis Palmer, and Lori Levin. *CWoMP: Morpheme Representation Learning for Interlinear Glossing*. Oct. 2026. To Appear. (**Acceptance rate: 15.4%**).
- [C2] Michael Ginn, Lindia Tjuaatja, **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. **Outstanding Paper Award**. (**Acceptance rate: 19%**).
- [C3] 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%**).
- [C4] **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%**).
- [C5] Michael Ginn, Lindia Tjuaatja, 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%**).

- [C6] **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%**).

Peer-Reviewed Workshops

- [W1] **Enora Rice**, Ali Marashian, Hannah Haynie, Katharina von der 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.

AWARDS, FELLOWSHIPS AND GRANTS

- 2026 **Outstanding Paper Award** for *Massively Multilingual Joint Segmentation and Glossing*, Association for Computational Linguistics (ACL) 2026
- 2026 **Outstanding Research Paper Award** for *Interdisciplinary Research in Conversation: A Case Study in Computational Morphology for Language Documentation* (\$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
2023, 2026	Graduate Peer Mentor at the University of Colorado Boulder
2024–2025	Volunteer Docent at the University of Colorado Boulder Media Archaeology Lab
2025	Student Volunteer at NAACL 2025
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

RESEARCH POSITIONS

2022–Present	Graduate Researcher, University of Colorado Boulder Natural language processing for morphology, typology, and language documentation.
2025–2026	Visiting Researcher, Carnegie Mellon University Language Technologies Institute Contributed to ongoing project automating end-to-end speech and morphosyntactic analysis for endangered languages. Developed CWoMP (Contrastive Word-Morpheme Pretraining), aligning contextual words with constituent morphemes in a shared embedding space to enable interpretable IGT generation via a user-extensible lexicon.
Summer 2021	Research Assistant, University of Southern California Institute for Creative Technologies Developed an NLP pipeline for the MentorPal virtual STEM mentorship platform to dynamically generate relevant follow-up questions from video transcripts to drive interactive engagement.

INTERNSHIPS

Summer 2026	Machine Learning Research Intern, Pinterest (Homefeed Relevance) Developed generative slate-reranking model for homefeed blending with direct-preference optimization (DPO) under a constrained multi-objective setup.
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 with a tax-domain mBERT model, improving classification of tax documents and increasing accessibility for non-native English users.

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.

TEACHING

Fall 2025 **Graduate 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, developed a new midterm. Supported approximately 80 students.

2022–2025 **Graduate Teaching Assistant, University of Colorado Boulder**
CSCI 4308 Software Engineering Project; *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 **Undergraduate 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.

MENTORSHIP

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

TALKS AND ORAL PRESENTATIONS

2026 **CWoMP: Morpheme Representation Learning for Interlinear Glossing (upcoming)**
Location: Budapest, Hungary; *Event:* EMNLP

2026 **User-Centered Computational Morphological Analysis for Typologically Diverse Languages (upcoming)**
Location: Charles University; *Host:* Magda Ševčíková

2025 **Interdisciplinary Research in Conversation**
Location: Suzhou, China; *Event:* EMNLP

2025 **Untangling the Influence of Typology, Data, and Model Architecture on Ranking Transfer Languages for Cross-Lingual POS Tagging**
Location: Albuquerque, USA; *Event:* LM4UC

REFERENCES

Alexis Palmer, Associate Professor of Linguistics at University of Colorado Boulder (USA), alexis.palmer@gmail.com

Katharina von der Wense, Assistant Professor of Computer Science at University of Colorado Boulder (USA) and Associate Professor of Artificial Intelligence at JGU Mainz (Germany), katharina.kann@colorado.edu

Lori Levin, Research Professor at the Carnegie Mellon Language Technologies Institute (USA), levin@andrew.cmu.edu