

Ray Groshan

COMPUTER SCIENCE PHD STUDENT • UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

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🎓 Google Scholar | 🐙 Github | 🔗 LinkedIn

🔍 Research Interests

Natural Language Processing, Assistive Technologies (AT), Augmentative & Alternative Communication (AAC), Speech Processing, Human-Centered Artificial Intelligence

🎓 Education

University of Maryland, Baltimore County

PHD IN COMPUTER SCIENCE

+ Advisor: Dr. Lara J. Martin

August 2025 – Present

Baltimore, MD

University of Colorado Boulder

MS IN COMPUTATIONAL LINGUISTICS

+ Mentors: Dr. Alexis Palmer, Michael Ginn

May 2025

Boulder, CO

Southern New Hampshire University

BS IN COMPUTER SCIENCE

+ Concentration: Software Engineering

+ Minor: Mathematics

March 2023

Online

University of Wisconsin – Madison

BA IN SPANISH

May 2019

Madison, WI

🏢 Research Experience

Graduate Research Assistant

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

Computer Science and Electrical Engineering (CSEE) Department • LARA Lab

June 2025 – Present

Baltimore, MD

Research Assistant Intern

UNIVERSITY OF COLORADO BOULDER

Linguistics Department • LECS Lab

September 2023 – March 2025

Boulder, CO

🏛️ Academic Positions

Student Assistant

UNIVERSITY OF COLORADO BOULDER

Linguistics Department

September 2024 - May 2025

Boulder, CO

Grader for CSCI 3832: Natural Language Processing

UNIVERSITY OF COLORADO BOULDER

Computer Science Department

January 2024 - May 2024

Boulder, CO

Course Manager for CSCI 7000: Recent Advances in Computer Vision

UNIVERSITY OF COLORADO BOULDER

Computer Science Department

August 2023 - December 2023

Boulder, CO

📁 Projects

🔗 Assistive Technology

📄 Agentic AI as a Communication Partner & Advocate

2025 – Present

Speech Processing

 Customizable TTS Voices for Trans & Nonbinary Folks

2025 – Present

Endangered Language Preservation

 Linguistically-Motivated Data Augmentation

[1]

2023 – 2025

 Dixhsa Hub

2024 – 2025

Publications

CONFERENCE PROCEEDINGS *equal contribution, †presented

- [1] **R. Groshan**^{†*}, M. Ginn*, and A. Palmer. “Is linguistically-motivated data augmentation worth it?” In: *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Ed. by W. Che, J. Nabende, E. Shutova, and M. T. Pilehvar. Vienna, Austria: Association for Computational Linguistics, July 2025, pp. 26924–26939. ISBN: 979-8-89176-251-0. DOI: [10.18653/v1/2025.acl-long.1307](https://doi.org/10.18653/v1/2025.acl-long.1307). URL: <https://aclanthology.org/2025.acl-long.1307/>.

PEER-REVIEWED WORKSHOP PAPERS

- [2] A. P.-C. Chen, **R. Groshan**, and S. von Bayern. “Mothman at SemEval-2024 Task 9: An Iterative System for Chain-of-Thought Prompt Optimization”. In: *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*. Ed. by A. K. Ojha, A. S. Doğruöz, H. Tayyar Madabushi, G. Da San Martino, S. Rosenthal, and A. Rosá. Mexico City, Mexico: Association for Computational Linguistics, June 2024, pp. 1876–1888. DOI: [10.18653/v1/2024.semeval-1.263](https://doi.org/10.18653/v1/2024.semeval-1.263). URL: <https://aclanthology.org/2024.semeval-1.263/>.

Professional Activities

REVIEWER

International Conference on Natural Language Generation (INLG)

October 29–November 2, 2025

Presentations

CONFERENCES

Is linguistically-motivated data augmentation worth it?

July 28, 2025

ACL 2025

Virtual

WORKSHOPS

Bind It All Together

October 17, 2024

CU BOULDER DISABILITY SYMPOSIUM

Virtual

PANELIST

Experiences and Survival Techniques of Graduate Students with Disabilities

October 14, 2024

CU BOULDER DISABILITY SYMPOSIUM

Boulder, CO

Pride Dinner & Discussion: Queer Adaptability

February 27, 2024

UNIVERSITY OF COLORADO BOULDER, CENTER FOR INCLUSION & SOCIAL CHANGE

Boulder, CO