Ray Groshan

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Research interests

NLP for neurodivergence, AAC and AI, AI chatbots for the treatment of cognitivecommunication disorders and oculomotor dysfunction post-brain injury, improved speech recognition for those with communication disorders, AI for medical self advocacy.

Education

 2025 University of Colorado Boulder – Boulder, CO MS in Computational Linguistics.
2023 Southern New Hampshire University – Online BS in Computer Science, Concentration in Software Engineering, Minor in Mathematics.
2019 University of Wisconsin–Madison – Madison, WI

BA in Spanish.

Research experience

September 2023	LECS Lab
– present	Mentor: Dr. Alexis Palmer (University of Colorado Boulder).
	Creation of a resource hub of Zapotec language learning materials.
	Research into morphology-based data augmentation methods.

Publications

2024 Mothman at SemEval-2024 Task 9: An Iterative System for Chain-of-Thought Prompt Optimization

Alvin Po-Chun Chen, Ray Groshan, Sean von Bayern. Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024).

Relevant experience

September 2024	Student Assistant
– present	University of Colorado Boulder, Linguistics Department – Boulder, CO
January 2024 –	Grader for CSCI 3832: Natural Language Processing
May 2024	University of Colorado Boulder, Computer Science Department – Boulder, CO
August 2023 –	Course Manager for CSCI 7000: Recent Advances in Computer Vision
December 2023	University of Colorado Boulder, Computer Science Department – Boulder, CO

February 2022 –	DevOps Engineer I
June 2023	Charter Communications via Beacon Hill – Greenwood Village, CO
June 2021 —	Junior Developer
January 2022	LeedSeed – Greenwood Village, CO

Honors and scholarships

2019 First Place (Environmental Justice in Multispecies Worlds) The Death and Life of the Great Lakes Writing Contest.

Talks and tutorials

October 2024	Bind It All Together
	Workshop. CU Boulder Disability Symposium.
October 2024	Experiences and Survival Techniques of Graduate Students with Disabilities
	Panelist. CU Boulder Disability Symposium.
February 2024	Pride Dinner & Discussion: Queer Adaptability
	Panelist. University of Colorado Boulder, Center for Inclusion & Social Change.

Technical skills

Programming languages Proficient in: Python, Java, C++ Familiar with: JavaScript, SQL, MatLab, Go Software GitLab, GitHub, AWS, GCP, Kubernetes, Docker, ArgoCD, Jira Languages English (fluent), Spanish (advanced)

Professional memberships

2024 – PresentoSTEM2023 – PresentAssociation of Nonbinary and Trans Language Researchers

Other interests

Aspiring outdoorsman, volunteering in wildlife rehabilitation, weightlifting, playing video games and tabletop games.