

Alex Morgan

PhD Candidate in Computer Science

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Research Profile

PhD candidate developing reliable and data-efficient machine-learning methods for natural language processing. My work combines uncertainty estimation, human-centered evaluation, and multilingual representation learning to make language technologies more trustworthy in high-stakes settings.

Education

PhD, Computer Science

Northbridge University, Boston, MA

Dissertation: *Reliable Learning under Linguistic and Distributional Uncertainty*

Advisor: Prof. Elena García | Committee: Profs. David Okafor and Priya Natarajan

Expected May 2027

GPA: 3.93/4.00

MS, Computer Science

Northbridge University, Boston, MA

Thesis: *Calibration-Aware Adaptation for Low-Resource Text Classification*

2022

GPA: 3.91/4.00

BS, Computer Science, summa cum laude

Lakeshore College, Evanston, IL

Minor in Statistics; Honors Program

2020

GPA: 3.89/4.00

Research Interests

Trustworthy machine learning; natural language processing; uncertainty quantification; multilingual learning; human-AI collaboration; responsible evaluation; domain adaptation.

Publications

- [1] **A. Morgan**, L. Zhang, and E. García. “Selective Prediction for Multilingual Sequence Models under Domain Shift.” *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025.
- [2] **A. Morgan** and E. García. “What Does Confidence Mean Across Languages? A Calibration Study of Multilingual Encoders.” *Transactions of the Association for Computational Linguistics*, vol. 12, pp. 811–829, 2024.
- [3] S. Patel, **A. Morgan**, J. Lee, and D. Okafor. “Human-in-the-Loop Auditing of Clinical Text Classifiers.” *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 4921–4938, 2024.
- [4] **A. Morgan**, M. Rahman, and E. García. “Data Maps for Identifying Fragile Few-Shot Learners.” *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 37, no. 13, pp. 15480–15488, 2023.
- [5] **A. Morgan** and P. Natarajan. “Robust Active Learning with Annotator Disagreement.” *NeurIPS Workshop on Human and Machine Decisions*, 2022.

Research Experience

Graduate Research Assistant

Reliable Language Systems Lab, Northbridge University

Aug 2021–Present

Boston, MA

- Designed conformal and selective-prediction methods that reduced error on accepted examples by 18% across six multilingual benchmarks while preserving target coverage.
- Built a reproducible evaluation suite spanning 24 datasets, 11 languages, and three model families; released code, model cards, and experiment configurations for external reuse.
- Led collaborations with two research groups and mentored four undergraduate researchers; resulting work produced three peer-reviewed papers and two open-source releases.

Research Intern, Responsible AI

Meridian Research

May–Aug 2024

Seattle, WA

- Developed uncertainty-aware monitoring for language-model classification pipelines, improving detection of distribution shift by 23% over the production baseline.
- Presented findings to research and product teams and transferred the prototype into an internal evaluation library used by five applied-ML projects.

Undergraduate Research Fellow

Data and Society Group, Lakeshore College

Jan 2019–May 2020

Evanston, IL

- Studied annotation disagreement in online-harassment datasets and created an analysis workflow adopted in two subsequent lab projects.

Selected Awards and Fellowships

2025	Outstanding Graduate Research Award, Northbridge University	\$3,000
2024	ACL Student Research Workshop Travel Grant	\$1,500
2023–25	National Science Foundation Graduate Research Fellowship	\$111,000
2022	College of Computing Doctoral Fellowship, Northbridge University	\$8,000
2020	Departmental Prize for Excellence in Computer Science, Lakeshore College	\$1,000

Teaching Experience

Instructor of Record, Introduction to Machine Learning **Spring 2025**
Northbridge University *Boston, MA*

- Designed and delivered a 14-week course for 62 students, including lectures, assignments, inclusive participation activities, and a reproducible final project.
- Earned a 4.7/5.0 overall teaching rating; 94% of respondents agreed that feedback supported learning.

Teaching Assistant **2021–2024**
Northbridge University *Boston, MA*

- Courses: Natural Language Processing (graduate, twice), Algorithms, and Data Structures.
- Led weekly sections and office hours, developed autograded exercises, and coordinated a team of six assistants for a 180-student course.

Invited Talks and Presentations

2025	“Reliable Predictions Across Languages and Domains,” Center for Language and AI, Westlake University.
2025	“Selective Prediction for Multilingual Sequence Models,” ACL 2025, Vienna, Austria.
2024	“Measuring Confidence in Multilingual Encoders,” EMNLP TrustNLP Workshop, Miami, FL.
2023	“Finding Fragile Examples with Data Maps,” AAAI 2023, Washington, DC.

Academic Service and Leadership

2024–Present	Graduate representative, Department Diversity and Climate Committee
2023–Present	Reviewer: ACL, EMNLP, NAACL, NeurIPS Datasets and Benchmarks Track
2023–2025	Co-organizer, Northbridge NLP Reading Group
2022–2024	Volunteer mentor, First-Generation Students in Computing Program

Technical Skills

Programming	Python, R, SQL, Bash, JavaScript
ML and NLP	PyTorch, JAX, Hugging Face, scikit-learn, spaCy, MLflow
Data and systems	Git, Docker, Linux, Slurm, PostgreSQL, AWS, Weights & Biases
Methods	Deep learning, Bayesian modeling, causal inference, experimental design, mixed-effects models
Languages	English (native), Spanish (professional working proficiency)

Professional Memberships

Association for Computational Linguistics (ACL); Association for Computing Machinery (ACM); AAAI; Women in Machine Learning (WiML).

References

Prof. Elena García Professor of Computer Science Northbridge University elena.garcia@northbridge.edu	Prof. David Okafor Associate Professor of CS Northbridge University david.okafor@northbridge.edu	Prof. Priya Natarajan Professor of Statistics Northbridge University priya.natarajan@northbridge.edu
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