

Katherine Atwell

[✉ atwell.ka@northeastern.edu](mailto:atwell.ka@northeastern.edu)
[🌐 katherine-atwell.github.io](https://katherine-atwell.github.io)
[in Katherine Atwell](https://www.linkedin.com/in/katherine-atwell/)

[@katwellll](https://twitter.com/katwellll)
👤 Katherine Atwell



Employment History

- 2026 – 📚 **Instructor of Record**, Northeastern University
- 2020 – 2026 📚 **Research and Teaching Assistant**, Northeastern University
- 2023 📚 **Student leader**, Alexa Prize TaskBot Challenge
- 2017 – 2020 📚 **Teaching Assistant and Mathematics Tutor**, UMBC
- 2019 📚 **Software Engineering Intern**, Google, Inc.
- 2018 📚 **Engineering Practicum Intern**, Google, Inc.
- 2017 📚 **Research Intern**, SPIRE-EIT REU, Iowa State University

Education

- 2020 – 2026 📚 **Ph.D., Computer Science** Northeastern University
- 2016 – 2020 📚 **B.S., Computer Science** University of Maryland, Baltimore County
- 2016-2020 📚 **B.S., Mathematics** University of Maryland, Baltimore County

Research Publications

Preprints

- 1 S. Imai, P. Heydari, A. Sicilia, A. Kaeberlein, **K. Atwell**, and M. Alikhani, "Mixdpo: Modeling preference strength for pluralistic alignment," *arXiv preprint arXiv:2601.06180*, 2026.
- 2 **K. Atwell**, P. Heydari, A. Sicilia, and M. Alikhani, "Basil: Bayesian assessment of sycophancy in llms," *arXiv preprint arXiv:2508.16846*, 2025.
- 3 **K. Atwell**, S. Imai, D. Bragg, and M. Alikhani, "" nothing about us without us": Perspectives of global deaf and hard-of-hearing community members on sign language technologies," *arXiv preprint arXiv:2512.08839*, 2025.
- 4 C. Kennington et al., "Dialogue with robots: Proposals for broadening participation and research in the sliver community," *arXiv preprint arXiv:2404.01158*, 2024.

Conference Proceedings

- 1 Y. Asano et al., "Contextual asr error handling with llms augmentation for goal-oriented conversational ai," in *Proceedings of the 31st International Conference on Computational Linguistics: Industry Track*, 2025, pp. 374–386.
- 2 **K. Atwell**, M. Simons, and M. Alikhani, "Measuring bias and agreement in large language model presupposition judgments," in *Findings of the Association for Computational Linguistics: ACL 2025*, 2025, pp. 2096–2107.
- 3 **K. Atwell** et al., "Proceedings of the fourth workshop on nlp for positive impact (nlp4pi)," in *Proceedings of the Fourth Workshop on NLP for Positive Impact (NLP4PI)*, 2025.
- 4 **K. Atwell**, M. Inan, A. B. Sicilia, and M. Alikhani, "Combining discourse coherence with large language models for more inclusive, equitable, and robust task-oriented dialogue," in *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, 2024, pp. 3538–3552.

- 5 V. S. Govindarajan, **K. Atwell**, B. Sinno, M. Alikhani, D. I. Beaver, and J. J. Li, "How people talk about each other: Modeling generalized intergroup bias and emotion," in *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics*, 2023, pp. 2496–2506.
- 6 M. Ye, K. Sikka, **K. Atwell**, S. Hassan, A. Divakaran, and M. Alikhani, "Multilingual content moderation: A case study on reddit," in *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics*, 2023, pp. 3828–3844.
- 7 **K. Atwell**, R. Choi, J. J. Li, and M. Alikhani, "The role of context and uncertainty in shallow discourse parsing," in *Proceedings of the 29th International Conference on Computational Linguistics*, 2022, pp. 797–811.
- 8 **K. Atwell**, S. Hassan, and M. Alikhani, "Appdia: A discourse-aware transformer-based style transfer model for offensive social media conversations," in *Proceedings of the 29th International Conference on Computational Linguistics*, 2022.
- 9 **K. Atwell**, A. Sicilia, S. J. Hwang, and M. Alikhani, "The change that matters in discourse parsing: Estimating the impact of domain shift on parser error," in *Findings of the Association for Computational Linguistics: ACL 2022*, 2022, pp. 824–845.
- 10 S. Hassan, K. J. Atwell, and M. Alikhani, "Studying the effect of moderator biases on the diversity of online discussions: A computational cross-linguistic study," in *Proceedings of the Annual Meeting of the Cognitive Science Society*, vol. 44, 2022.
- 11 A. Sicilia, **K. Atwell**, M. Alikhani, and S. J. Hwang, "Pac-bayesian domain adaptation bounds for multiclass learners," in *Uncertainty in artificial intelligence*, PMLR, 2022, pp. 1824–1834.
- 12 B. Sinno, B. Oviedo, **K. Atwell**, M. Alikhani, and J. J. Li, "Political ideology and polarization: A multi-dimensional approach," in *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, 2022, pp. 231–243.
- 13 **K. Atwell**, J. J. Li, and M. Alikhani, "Where are we in discourse relation recognition?" In *Proceedings of the 22nd Annual Meeting of the Special Interest Group on Discourse and Dialogue*, 2021, pp. 314–325.
- 14 A. Helgerson et al., "Developing an optimized ui for traffic incident managers," in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, SAGE Publications Sage CA: Los Angeles, CA, vol. 62, 2018, pp. 292–296.

Books and Chapters

- 1 K. Yin, **K. Atwell**, J. A. Hochgesang, and M. Alikhani, "The importance of including signed languages in natural language processing," in *Sign Language Machine Translation*, Springer Nature Switzerland Cham, 2024, pp. 73–87.

Awards and Achievements

2023	 Third place , Alexa Prize TaskBot competition
2022	 Best Paper Award , UAI 2022
	 Travel Scholarship Recipient , CRA-W Scholarship for Early Career Workshop and the Graduate Cohort
2016 – 2020	 Meyerhoff Scholar , University of Maryland, Baltimore County
2018	 Travel Scholarship Recipient , Grace Hopper Celebration

Invited Talks

- | | |
|------|---|
| 2026 | ■ Are Models Telling us What we Want to Hear? Exploring sycophancy in LLMs,
Responsible AI Practice, Northeastern University |
| 2025 | ■ Conversational AI systems, Northeastern University |
| 2024 | ■ Responsible Artificial Intelligence and Marginalized Communities, Bilkent University |
| 2022 | ■ Coreference, University of Pittsburgh |
| | ■ APPDIA: A Discourse-aware Transformer-based Style Transfer Model for Offensive Social Media Conversations, The University of Texas at Austin |

Skills

- | | |
|-----------|--|
| Languages | ■ Native English speaker with beginner to intermediate Spanish proficiency |
| Coding | ■ Python, C++, C, HTML, CSS, JavaScript, . . . |
| Libraries | ■ HuggingFace, PyTorch, Pandas, scikit-Learn, . . . |
| Misc. | ■ Mathematics, academic research, teaching, writing, data analysis |

Teaching Experience

- | | |
|-----------|---|
| 2026 | ■ Instructor of Record: CS 4120, Natural Language Processing
<i>Northeastern University</i>
Developed syllabus and course materials, delivered weekly lectures to 40+ students, facilitated semester-long research projects in NLP |
| 2025 | ■ Teaching Assistant: CS 4120, Natural Language Processing
<i>Northeastern University</i>
Prepared course materials, graded homeworks, and gave a weekly series on modern applications of LLMs |
| 2024 | ■ Teaching Assistant: DS 5230, Unsupervised Learning and Data Mining
<i>Northeastern University</i>
Gave in-class labs, graded assignments, assisted students with course projects |
| 2021 | ■ Teaching Assistant: CS 1684, Bias and Ethical Implications in Artificial Intelligence
<i>University of Pittsburgh</i>
Held office hours, graded assignments, assisted students with course projects |
| 2019-2020 | ■ Teaching Assistant: CMSC 202, Introduction to Computer Science II
<i>UMBC</i>
Assisted students with their assignments, held office hours, graded projects and exams |
| 2018 | ■ Teaching Assistant: Calculus I
<i>UMBC</i>
Held discussion sections, proctored quizzes, graded quizzes and exams, held office hours |
| 2017-2018 | ■ Tutor: Math and Science Center
<i>UMBC</i>
Tutored students for a variety of mathematics, statistics, and computer science courses at the university tutoring center |

Academic Service

- | | |
|--------------|--|
| 2025 | ■ Organizer, NLP for Positive Impact Workshop at ACL 2025 |
| 2024 – . . . | ■ Area Chair, ACL Rolling Review, CoNLL |

Academic Service (continued)

- 2021 –

 - **Ethics Reviewer**, ACL Rolling Review
 - **Reviewer**, ACL Rolling Review, EMNLP, ACL, NAACL, UAI, ACM FAccT, Journal of Educational Data Mining, INLG, AAAI
- 2022 –

 - **Program Committee**, ACM FAccT, SIGDIAL, Workshop on Computational Approaches to Discourse
- 2021 –

 - **Reviewer**, ACL Rolling Review, EMNLP, ACL, NAACL, UAI, ACM FAccT, Journal of Educational Data Mining, INLG, AAAI
- 2024

 - **Graduate Application Reviewer**, Northeastern University
 - **Hiring Interview Scribe**, Northeastern University
- 2023

 - **Organizer**, PittInclusion