Ananya Ganesh

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EDUCATION

- **University of Colorado, Boulder** — Boulder, CO
  PhD Student, Computer Science — *Aug 2020 – Aug 2025*

  Advised by: Prof. Katharina von der Wense and Prof. Martha Palmer
  Research interests: NLP for Education, Dialog systems, Low-resource NLP

- **University of Massachusetts, Amherst** — Amherst, MA
  Master of Science in Computer Science — *Aug 2017 – May 2019*

- **Anna University** — Chennai, India
  Bachelor of Engineering in Computer Science — *Aug 2013 – Jun 2017*

PUBLICATIONS

- Shamya Karumbaiah, **Ananya Ganesh**, Aayush Bharadwaj, Lucas Anderson. Prompt vs. Supervise: A Case of Using Language Models to Assess Students' Science Explanations In *European Conference on Technology Enhanced Learning (pp. 244-258). (ECTEL 2024)*

- **Ananya Ganesh**, Chelsea Chandler, Sidney D'Mello, Martha Palmer, Katharina von der Wense. Prompting as Panacea? A Case Study of In-Context Learning Performance for Qualitative Coding of Classroom Dialog In *Proceedings of the 17th International Conference on Educational Data Mining, pages 835–843, Atlanta, Georgia. (EDM 2024)*

- Shamya Karumbaiah, **Ananya Ganesh**, Aayush Bharadwaj, Lucas Anderson. Evaluating Behaviors of General Purpose Language Models in a Pedagogical Context In *International Conference on Artificial Intelligence in Education pp. 47-61. (AIED 2024)*

- **Ananya Ganesh**, Marine Carpuat, William Chen, Katharina Kann, Constantine Lignos, John E Ortega, Jonne Saleva, Shabnam Tafreshi, Rodolfo Zevallos. Findings of the CoCo4MT 2023 Shared Task on Corpus Construction for Machine Translation In *Proceedings of the 2nd Workshop on Corpus Generation and Corpus Augmentation for Machine Translation (CoCo4MT 2023)*

- **Ananya Ganesh**, Jie Cao, Margaret Perkoff, Rosy Southwell, Martha Palmer, Katharina Kann. Mind the Gap between the Application Track and the Real World. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers) (pp. 1833-1842).*

- **Ananya Ganesh**, Martha Palmer, Katharina Kann. A Survey of Challenges and Methods in the Computational Modeling of Multi-Party Dialog. In *Proceedings of the 5th Workshop on NLP for Conversational AI (NLP4ConvAI 2023) (pp. 140-154).*

- **Ananya Ganesh**, Michael Chang, Rachel Dickler, Jon Cai, Michael Regan, Kristin Wright-Bettner, James Pustejovsky, James Martin, Jeff Flanigan, Martha Palmer, Katharina Kann. Navigating Wanderland: Highlighting Off-Task Discussions in Classrooms. In *International Conference on Artificial Intelligence in Education (pp. 727-732). (AIED 2023)*

- Jie Cao, **Ananya Ganesh**, Jon Cai, Rosy Southwell, Margaret Perkoff, Michael Reagan, Katharina Kann, James Martin, Martha Palmer, and Sidney D'Mello. A Comparative Analysis of Automatic Speech Recognition Errors in Small Group Classroom Discourse. In *Proceedings of the 31st ACM Conference on User Modeling, Adaptation and Personalization (pp. 250-262) (UMAP 2023)*

- Rajat Bhatnagar*, **Ananya Ganesh***, Katharina Kann. CHIA: CHoosing Instances to Annotate for Machine Translation. In *Findings of the Association for Computational Linguistics: EMNLP 2022, pages 7299–7315* (*=Equal Contribution)

- Aparna Garimella, Abhilasha Sancheti, Vinay Aggarwal, **Ananya Ganesh**, Niyati Chayya, Nandakishore Khambatla. [Text Simplification for Legal Domain: Insights and Challenges](#) In *Proceedings of the Natural Legal Language Processing Workshop 2022 (pp. 296-304)*

- **Ananya Ganesh**, Hugh Scribner, Jasdeep Singh, Katherine Goodman, Jean Hertzberg, Katharina Kann. [Response Construct Tagging: NLP-Aided Assessment for Engineering Education](#). In *Proceedings of the 17th Workshop on Innovative Use of NLP for Building Educational Applications (BEA 2022) (pp. 250-261)*.

- **Ananya Ganesh**, Martha Palmer, Katharina Kann. [What Would a Teacher Do? Predicting Future Talk Moves](#). In *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021 (pp. 4739-4751)*.

- Rajat Bhatnagar, **Ananya Ganesh**, Katharina Kann. [Don't Rule Out Monolingual Speakers: A Method For Crowdsourcing Machine Translation Data](#). In *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 2: Short Papers) (pp. 1099-1106)*.

- Goran Glavaš, **Ananya Ganesh**, Swapna Somasundaran. [Training and Domain Adaptation for Supervised Text Segmentation](#). In *Proceedings of the 16th Workshop on Innovative Use of NLP for Building Educational Applications (pp. 110-116)*

- Emma Strubell, **Ananya Ganesh**, Andrew McCallum. [Energy and Policy Considerations for Deep Learning in NLP](#). In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (pp. 3645-3650)*.

- Haw-Shiuan Chang, Amol Agarwal, **Ananya Ganesh**, Anirudha Desai, Vinayak Mathur, Alfred Hough, and Andrew McCallum. [Efficient graph-based word sense induction by distributional inclusion vector embeddings](#). In *Proceedings of the Twelfth Workshop on Graph-Based Methods for Natural Language Processing (TextGraphs-12) (pp. 38-48)*

Awards & Honors

- Dissertation Completion Fellowship for Outstanding Research ($3000)
- Bell Family Foundation Outstanding Research Award ($1000)
- CRA-W Grad Cohort 2023 Travel Funding (Fully Funded)
- Trainee Grant Award for the research proposal "Evaluating the Feasibility of Neural Dialog Systems in Classroom Settings" ($2500, awarded by the NSF AI Institute for Student-AI Teaming)
- Nelson A. Prager Family and James H. Martin Endowed Graduate Fellowship 2021 ($1000)
- CU Boulder Fall 2021 Publication Recognition Award ($200)
- Madrona Top Impact Prize in ML & NLP 2019 (with Emma Strubell and Andrew McCallum)
- CU Boulder Dean's Summer 2021 Research Fellowship ($6000)
- JASSO Scholarship for study in Japan 2016 (JPY 80,000 = $800)

Experience

- **Oracle Labs** — Broomfield, CO
  Research Intern, Machine Learning — May 2024 – Aug 2024
- **Adobe Research** — Bangalore, India
  Research Intern, Natural Language Processing — May 2021 – Aug 2021
- **Educational Testing Service** — Princeton, NJ
  Asst. Research Engineer, NLP & Speech Group — Aug 2019 – Aug 2020

Teaching

- Graduate Part-Time Instructor (GPTI) for the undergraduate-level course *CSCI 3832: Introduction to Natural Language Processing*, Spring 2024

- Teaching Assistant for the undergraduate-level course *CSCI 2247: Data Structures and Algorithms*, Fall 2020

Invited Talks

- *Dialog Agents for Instructional Support in Classrooms*: audience of 20 undergraduate students. NHL Stenden University of Applied Sciences, Oct 2025

- *Large Language Models in Qualitative Coding: Promises and Constraints*: audience of 25 social-science researchers. University of Wisconsin–Madison, Oct 2025

- *Bias and Ethics in NLP*: audience of 60 undergraduate students in NLP. University of Colorado Boulder, March 2023

- *Predicting Future Teacher Talk Moves using Hierarchical Encoders*: audience of 30 undergraduate students. CU Boulder Data Science Team, June 2021

Service & Outreach

- Graduate representative, CU Boulder Executive Committee 2024-2025

- CU Boulder Graduate Application Mentor 2023

- Tech Girls job shadow host, 2023

- Student Representative, Executive Commitee for the NSF Institute for Student AI Teaming, 2023

- Co-organizer for The Second Workshop on Corpus Generation and Corpus Augmentation for Machine Translation @ MT Summit 2023

- Captioning co-chair, ACL 2020 Virtual Conference

- Graduate co-chair, UMass Amherst CS Women's Group (2018)

- Reviewer, IJAIED 2024, NLP4ConvAI 2024, AAAI 2024, EMNLP 2023, ACL 2023, BEA 2023, AAAI 2023, EMNLP 2022, EMNLP 2021, BEA 2020, EMNLP 2020, WWW 2019