Ananya Ganesh

ananyaganesh.github.io

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EDUCATION

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

EXPERIENCE

Adobe Research — Bangalore, India
Research Intern, Natural Language Processing — *May 2021 – Aug 2021*
Designed and implemented a three-step pipeline to reformulate contract clauses to simple English text. Experimented with state-of-the-art text simplification and summarization algorithms to perform zero-shot clause reformulation.

Educational Testing Service — Princeton, NJ
Asst. Research Engineer, NLP & Speech Group — *Aug 2019 – Aug 2020*
Supported research in natural language processing for educational technology by collaborating with research scientists. Investigated problems including interpretability of neural models for short answer scoring, and extraction of coherent passages from text for assessment development.

Lexalytics — Amherst, MA
Research Assistant — *Jan 2018 - Apr 2018*
Developed an efficient new method to perform word sense induction using graph-based clustering. Achieved state-of-the-art results across three evaluation benchmarks, and published results at the TextGraphs-2018 workshop at NAACL.

PUBLICATIONS

- **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).*

- 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)*

- 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)*

SKILLS

Python, TensorFlow, scikit-learn, numpy, Git, spacy, PyTorch, NLTK, C++

AWARDS & HONORS

- 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)
- Madrona Top Impact Prize in ML & NLP 2019 (with Emma Strubell and Andrew McCallum)
- JASSO Scholarship for study in Japan 2016 (JPY 80,000 = $800)

SERVICE & OUTREACH

- Tech Girls job shadow host, 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, AAAI 2024, EMNLP 2023, ACL 2023, BEA 2023, AAAI 2023, EMNLP 2022, EMNLP 2021, BEA 2020, EMNLP 2020, WWW 2019