

## EDUCATION

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### University of Massachusetts Amherst

Ph.D., Computer Science

2021 – Present

Advisor: Brendan T. O'Connor

### Indian Institute of Science Bangalore

M.E. with Thesis, Electrical Engineering and Computer Science

2017

Advisor: P. S. Sastry

### Malaviya National Institute of Technology Jaipur

B.Tech., Electrical Engineering

2014

Gold Medalist

## PUBLICATIONS

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### Conference and Workshop Publications

- [1] Examining Political Rhetoric with Epistemic Stance Detection.  
**Ankita Gupta**, Su Lin Blodgett, Justin H. Gross, and Brendan O'Connor.  
In *Proceedings of the Fifth Workshop on Natural Language Processing and Computational Social Science (NLP+CSS) at EMNLP*, 2022.
- [2] ezCoref: Towards Unifying Annotation Guidelines for Coreference Resolution.  
**Ankita Gupta**, Marzena Karpinska, Wenlong Zhao, Kalpesh Krishna, Jack Merullo, Luke Yeh, Mohit Iyyer, Brendan O'Connor.  
In *Findings of EACL*, 2023.
- [3] PoliBelief: A Multi-source Epistemic Stance Dataset for Analyzing Political Ideology.  
**Ankita Gupta**, Su Lin Blodgett, Justin H. Gross, and Brendan O'Connor.  
In *11th Annual Conference on Analyzing Text as Data (TADA)*, 2021.
- [4] Quantifying the Causal Effect of Gender on Interruptions in Supreme Court Oral Arguments.  
Katherine Keith, **Ankita Gupta**, Erica Cai, Brendan O'Connor and Douglas Rice.  
In *New Directions in Analyzing Text as Data (TADA)*, 2022.
- [5] Instability Prediction in Power Systems using Recurrent Neural Networks.  
**Ankita Gupta**, Gurunath Gurralla, Pidaparthi S Sastry.  
In *Proceedings of the Twenty-Sixth IJCAI*, 2017.
- [6] Question Factuality and Answer Veracity Prediction in Community Forums.  
**Ankita Gupta**, S Sahoo, D Prakash, R.R Rohit, V Srivastava, and Y H Kim.  
In *Proceedings of the 13th International Workshop on Semantic Evaluation*, 2019.
- [7] Hyperpartisan News Detection using Lexical and Semantic Features.  
V Srivastava, **Ankita Gupta**, D. Prakash, S Sahoo, R.R Rohit, and Y H Kim.  
In *Proceedings of the 13th International Workshop on Semantic Evaluation*, 2019.

- [8] Knowledge Directed Multi-task Framework for Natural Language Inference in Clinical Domain  
S Chopra, **Ankita Gupta**, and A Kaushik.  
In *Proceedings of the 18th BioNLP Workshop and Shared Task*, 2019.

## Journal Publications

- [9] An Online Power System Stability Monitoring System using Convolutional Neural Networks.  
**Ankita Gupta**, Gurunath Gurrala, and P. S. Sastry.  
*IEEE Transactions on Power Systems*. 2018.

## Preprints

- [10] NarrativeTime: Dense Temporal Annotation on a Timeline, 2022.  
Anna Rogers, Marzena Karpinska, **Ankita Gupta**, Vladislav Lialin, Gregory Smelkov, Anna Rumshisky.
- [11] Evaluating and improving the robustness of dialogue summarization models (in progress)  
**Ankita Gupta**, Chulaka Gunasekara, Hui Wan, Jatin Ganhotra, Sachindra Joshi, Marina Danilevsky.

## RESEARCH EXPERIENCE

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### UMass Amherst

2021-Present

*Graduate Research Assistant*

*Advisor: Brendan T. O'Connor*

Worked on epistemic stances to analyze political rhetoric [1, 3], annotation guidelines for coreference resolution [2], and quantifying the causal effect of gender on interruptions in supreme court oral arguments [4].

### IBM Yorktown Heights

May-August 2022

*Research Intern, Language Technologies*

*Mentors: Chulaka Gunasekara, Hui Wan, Marina Danilevsky*

Worked on evaluating and improving the robustness of dialogue summarization in the presence of real-world input noise [11].

### Amazon Bangalore

2020-2021

*Applied Scientist, India Machine Learning Team*

Worked on contextual bandits to rank deals & discounts on the e-commerce platform, automatic curation of theme-specific products using positive-unlabelled learning.

### Samsung Bangalore

2017-2020

*Lead ML Engineer, Advanced Technology Lab*

Worked on fact-verification [6], hyperpartisan news detection [7], logical-fallacies, natural language inference for the clinical domain [8], claim-extraction using abstractive summarization and sentence ranking techniques, reading-comprehension task to extract snippets of text which are relevant to a claim in the fact-checking pipeline.

## Indian Institute of Science Bangalore

2016-2017

*Graduate Research Assistant*

*Advisors: P.S. Sastry and Gurunath Gurrula*

Worked on power-systems instability prediction using recurrent neural networks [5] and convolutional neural networks [9].

## HONORS AND AWARDS

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UMass W. Bruce Croft Scholarship (one student in NLP)	2021
UMass Anuradha and Hanuma Kodavalla Scholarship	2021
Samsung Citizen Award	2019
Gold Medallist (B.Tech)	2014
KVPY Fellowship (Young scientist fellowship, Government of India)	2010

## COMPETENCIES

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**Languages** Hindi (*native*), English (*fluent*, TOEFL 119)

**Programming** Python, C/C++ (*Certified Professional, Samsung*), Java, Matlab, R, JavaScript

**Libraries and Services** Tensorflow, PyTorch, Theano, Stanford CoreNLP, NLTK, Amazon Mechanical Turk, Amazon Web Service, Amazon SageMaker, Git

## RELEVANT GRADUATE COURSEWORK

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Simulation and Causal Modeling, Advanced Natural Language Processing, Probabilistic Graphical Models, Advanced Algorithms, Machine Learning for Signal Processing, Data Analytics, Game Theory, Pattern Recognition, and Neural Networks, Data Mining, Linear and Non-Linear Optimization.

## SERVICE AND OUTREACH

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Committee Member, Ph.D. Applicant Support Program, UMass CICS.	2022
Organizer, Machine Learning & Friends Lunch, UMass CICS.	2022
Mentor, Ph.D. Applicant Support Program, UMass CICS.	2021
Volunteer, Candidate Friday, UMass CICS.	2021
Reading Group Coordinator, Samsung.	2018-2019
Young Women Professional Representative, Budget Meeting, Chief Minister Secretariat.	2014
Student Representative, Departmental Under Graduate Committee, MNIT, Jaipur.	2013-2014
Reviewer/Program Committee: DialDoc 2023, ACL 2023, EAACL 2023, EMNLP 2022, ARR 2021-Present.	

## MENTORING

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Dat Duong (MS), Philip George (MS), Nirupan Ananthamurugan (MS)	Feb-May 2023
Madhu Samhitha Vangara (MS), Gauri Chaware (MS), Rahul Tandon (MS), Samuel Wallace (BS)	Feb-May 2022