

# Rheeya Uppaal

Email: [rheeya.uppal@gmail.com](mailto:rheeya.uppal@gmail.com) | Website: <http://uppaal.github.io/>

---

## EDUCATION

### University of Wisconsin-Madison

Doctor of Philosophy in Computer Science (2022-)

### University of Massachusetts, Amherst

Master of Science in Computer Science (2017-19)

### Symbiosis Institute of Technology, Pune, India

Bachelor of Technology in Computer Science (2013-17)

---

## PROFESSIONAL AND RESEARCH EXPERIENCE

### Amazon Science

Applied Scientist Intern, under [Dr Phu Mon Htut](#)

New York, June-August 2025

### Amazon Science

Applied Scientist Intern, under [Dr Markus Dreyer](#) and [Prof Mohit Bansal](#)

Seattle, June-August 2024

### UW Madison

Research Assistant, under [Prof Junjie Hu](#)

Madison, 2022-Present

### Goldman Sachs CoreAI

Research Engineer, under [Dr Vijay Saraswat](#)

New York City, 2019 – 2021

### UMass Amherst

Research Assistant, under [Prof Andrew McCallum](#) and [Prof Madalina Fiterau](#)

Amherst, 2018-2020

### Goldman Sachs

Machine Learning Intern, under [Regina Chan](#)

New York City, June-August 2018

### Microsoft Research Montreal

Research mentee, under [Dr Timothy Hazen](#)

Remote, February-July 2018

### Indian Institute of Technology Bombay

Research Intern, under [Prof Virendra Singh](#)

Mumbai, May-August 2016

### Indian Institute of Technology Madras

Research Intern, under [Prof Balaraman Ravindran](#)

Chennai, January-May 2016

---

## PUBLICATIONS

- **Rheeya Uppaal**, Phu Mon Htut, Min Bai, Nikolaos Pappas, Zheng Qi, Sandesh Swamy. *Journey Before Destination: On the importance of Visual Faithfulness in Slow Thinking*. In the 19th Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2026. [Article]
- **Rheeya Uppaal**, Apratim Dey, Yiting He, Yiqiao Zhong, Junjie Hu. *Model Editing as a Robust and Denoised variant of DPO: A Case Study on Toxicity*. In the Thirteenth International Conference on Learning Representations (ICLR), 2025. [Talk] [Article]
- Anand Syamkumar, Nora Tseng, Kaycie Barron, Shanglin Yang, Shamyia Karumbaiah, **Rheeya Uppaal**, Junjie Hu. *Improving Bilingual Capabilities of Language Models to Support Diverse Linguistic Practices in Education*. Preprint.
- **Rheeya Uppaal**, Yixuan Li, Junjie Hu. *How Useful is Continued Pre-Training for Generative Unsupervised Domain Adaptation?* In the 9th Workshop on Representation Learning for NLP (Rep4NLP) at the 62nd Annual Meeting of the Association for Computational Linguistics (ACL), 2024.
- Yun-Shiuan Chuang, Yi Wu, Dhruv Gupta, **Rheeya Uppaal**, Ananya Kumar, Luhang Sun, Makes Narsimhan Sreedhar, Sijia Yang, Timothy T. Rogers, Junjie Hu. *Evolving Domain Adaptation of Pretrained Language Models for Text Classification*. In the Workshop on Distribution Shifts: New Frontiers with Foundation Models at the Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS), 2023.
- **Rheeya Uppaal**, Junjie Hu, Yixuan Li. *Is Fine-tuning Needed? Pre-trained Language Models Are Near Perfect for Out-of-Domain Detection*. In the 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023. [Talk] [Media coverage]
- Ahsaas Bajaj, Pavitra Dangati, Kalpesh Krishna, Pradhiksha Ashok Kumar, **Rheeya Uppaal**, Bradford Windsor, Eliot Brenner, Dominic Dotterer, Rajarshi Das and Andrew McCallum. *Long Document Summarization in a Low Resource Setting using Pretrained Language Models*. In the Student Workshop at the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP), 2021.
- Haw-Shiuan Chang, Shankar Vembu, Sunil Mohan, **Rheeya Uppaal**, Andrew McCallum. *Using Error Decay Prediction to Overcome Practical Issues of Deep Active Learning for Named Entity Recognition*. In European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), 2020 (Journal Track).
- **Rheeya Uppaal**. *LRS-DAG: Low Resource Supervised Domain Adaptation with Generalization Across Domains*. In the New in ML Workshop of the Thirty-third Conference on Neural Information Processing Systems (NeurIPS), 2019. [Talk]
- **Rheeya Uppaal**, Bryon Kucharski, Bhanu Pratap Singh, Iman Deznabi, Madelina Fiterau. *Multi-resolution Attention with Signal Splitting for Multivariate Time Series Classification*. In the Time Series Workshop of The Thirty-sixth International Conference on Machine Learning (ICML), 2019.
- Bhanu Pratap Singh, Iman Deznabi, **Rheeya Uppaal**, Bryon Kucharski, Bharath Narasimhan, Akhila Josyula, Madelina Fiterau. *Multi-resolution Networks For Flexible Irregular Time Series Modeling*. Preprint.
- Kuiljeit Uppaal, **Rheeya Uppaal**. *Leveraging One's Impact Through Digital Persona and Image Management for Enhanced Effectiveness and Competitive Advantage*. Elsevier, 2018.

- **Rheeya Uppaal.** *Combating Unbalanced Datasets with Generative Adversarial Networks*. Presented at the Women in Data Science Central Massachusetts Conference (WiDS 2018).
  - **Rheeya Uppaal.** *Exploring Robust Vehicle Detection and Tracking Methods for Various Illumination Settings using Infrared Thermographic Images*. In the International Journal of Research in Advent Technology, Special Issue National Conference (NCPC 2016).
- 

## SERVICE, MENTORING AND OUTREACH

### ACADEMIC SERVICE

- Reviewer: COLM (2025-), ICLR (2025-), ACL Rolling Review (2022-), SATA Workshop @ NeurIPS (2024), AKBC (2022), ACM Student Research Competition at the Grace Hopper Conference (2019)
- Member of Department Advisory Board, (2024-)
- Research Team Leadership, Wisconsin AI Safety Initiative (2024-)

### INVITED TALKS

- *From Internals to Outcomes: Enhancing Truthfulness and Safety in Language Models*. At [Freestone Grove](#), 2025.
- *Towards Robust Model Editing Techniques*. [Cohere for AI's](#) Research Connections Community, 2025.
- *Model Editing for Aligning Models to Preferred Behaviours*. Amazon Science GPS Reading Group, 2024
- *Multi-task Learning in NLP*. UW Madison's [CS 769: Advanced Natural Language Processing](#), Fall 2024.
- *Parameter Efficient Learning*. UW Madison's [CS 769: Advanced Natural Language Processing](#), Fall 2024.
- *Reducing Toxicity in Language Models through Weight Editing*. [ML-X Forum](#) at UW Madison, 2024.
- Panellist, *Getting Started in Research*. UW Madison, 2024.
- *Parameter Efficient Learning*. UW Madison's [CS 769: Advanced Natural Language Processing](#), Fall 2023.
- Panellist, *CICS Community Discussion - International Student Experiences*, 2019.

### TEACHING AND MENTORING:

- Taught and co-wrote a [Carpentries](#) workshop on [Trustworthy AI: Validity, Fairness, Explainability, and Uncertainty Assessments](#), Fall 2024.
- Taught and co-wrote the lecture on Parameter Efficient Fine-tuning in UW Madison's [CS 769: Advanced Natural Language Processing](#), Fall 2023.
- Co-wrote multiple lectures and assignments for UW Madison's [CS 220: Introduction to Data Science Programming](#), Spring 2022.
- Academic Mentor, [ML-X Machine Learning Marathon](#), 2023.
- Mentor, [UW Madison ACM-W Year Long Mentorship Program](#), 2022, 2023.
- Mentor, [UMass Amherst MS Clusters](#), 2021.

- Goldman Sachs Industry Mentor, [UMass Industrial Independent Study](#), 2020.
- Mentor and speaker, [UMass CS Women](#), 2018-19.
- Mentor, [UMass Women in Engineering Career Day](#), 2018.
- Mentor, [Google Summer of Code](#), 2016 (representing [Systems](#), an Anita Borg Institute community).

#### **SOCIAL WORK:**

- Supporting empowerment of 17 economically challenged girls from India, through sponsorship of their school education till graduation.
  - Senator, [UMass Amherst Graduate Student Senate](#), 2018.
  - Member, [All Ladies League \(ALL\)](#), the world's largest non-profit women's international organization for women empowerment and leadership. Specific focus on supporting economically challenged female students in India.
  - Volunteer, [Swacch](#), conducting drives across Pune, India to promote the use of paper bags over plastic.
  - Volunteer, [Goonj](#), participating in drives to collect and collate items for charity across Pune, India.
- 

#### **SELECTED AWARDS AND ACADEMIC ACHIEVEMENTS**

- [UW Madison First-year CS Departmental Scholarship](#), 2022. (Offered to select students on admission to the university).
  - [Karamveer Chakra Award](#) (instituted by the [United Nations](#) and iCongo), 2021.
  - [Young Leaders Creating a Better World for ALL Award](#) at Women Economic Forum 2019, for supporting the education of underprivileged school aged girls.
  - Semi Finalist, [ACM Student Research Competition –Grace Hopper Celebration for Women in Computing](#), 2018.
  - All India Rank 2, [National Creativity and Aptitude Test \(NCAT\)](#), 2015.
- 

#### **TECHNICAL SKILLS**

**Languages:** Python, MATLAB, C++, Java, HTML, CSS, JavaScript, MySQL

**Deep Learning Frameworks:** PyTorch, HuggingFace