

Rheeya Uppaal

Email: 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

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

Researcher, 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**, Yixuan Li, Junjie Hu. [How Useful is Continued Pre-Training for Generative Unsupervised Domain Adaptation?](#) Preprint, 2024.
- Yun-Shiuan Chuang, Yi Wu, Dhruv Gupta, **Rheeya Uppaal**, Ananya Kumar, Luhang Sun, Makesh 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 Dotterrer, 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

- Student Volunteer: ACL 2023
- Reviewer: ACL Rolling Review (2022-), ACM Student Research Competition at the Grace Hopper Conference (2019), ACL (2020), AKBC (2022)

TEACHING AND MENTORING:

- 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.
- Panellist, [CICS Community Discussion - International Student Experiences](#), 2019.
- 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).
- Mentees:
 - Chaitanyasuma Jain, UW Madison
 - Ruixuan Tu, UW Madison
 - Shivani Shrivastava, Goldman Sachs -> UC Irvine
 - Puria Radmard, University of Cambridge -> PhD at University of Cambridge

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, TensorFlow