

# Samraj Moorjani

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smoorjani.github.io

## Education

- 2022- **Master's of Science, Computer Science.**  
University of Illinois at Urbana-Champaign  
Advisor: Hari Sundaram  
Graduation May 2023
- 2019-2022 **Bachelor's of Science, Computer Science.**  
University of Illinois at Urbana-Champaign  
GPA 3.98/4.00
- 2015-2019 **High School Diploma.**  
William G. Enloe High School  
GPA 4.7/4.0 (Weighted)  
Dual Degree with North Carolina State University

## Awards

- 2022 **Siebel Scholar, Thomas M. Siebel Foundation.**  
Among 90 graduate students from select 16 schools worldwide (\$35k prize)
- 2020 **URAI Scholar, IBM C3SR.**  
Undergraduate Research in AI Scholar awarded by IBM Center for Cognitive Computing Systems Research
- 2020 **First Place Prize, Caterpillar Anomaly Detection in IoT Challenge.**  
Undergraduate Research in AI Scholar awarded by IBM Center for Cognitive Computing Systems Research
- 2019-2023 **Dean's List, University of Illinois at Urbana-Champaign.**
- 2017-2019 **AIME Qualifier, Mathematical Association of American.**  
Qualified for American Invitational Mathematics Examination

## Experience

- May–August 2022 **Meta, Software Engineering Intern, Menlo Park.**  
Worked on Ads Responsibility and Privacy to improve multimodal advertisement classification using novel hierarchical multi-label classification methods
- May 2021– **Crowd Dynamics Lab, Graduate Researcher, Champaign.**  
Employing natural language generation (NLG) to present scientific information to a layperson audience. Various threads of work including persuasive text generation, long text generation, controllable NLG, etc.
- May–August 2021 **Facebook, Software Engineering Intern, Menlo Park.**  
Worked on the AI Commerce Multimodal team to improve the cross-lingual abilities of multilingual multimodal categorization models through various novel strategies.
- August 2020– **IBM C3SR, Undergraduate Researcher, Champaign.**  
Integrated sparse matrix multiplication operations (e.g. cuBLAS, cuSPARSE, TiledSpMM) into a custom kernel pipeline for PyTorch. Pruned large language models like NVIDIA's Megatron-LM BERT with various structured/unstructured pruning techniques and retrained with weight rewinding.
- June–August 2020 **Capital One, Software Engineering Intern, Champaign.**  
Deployed a distributable named entity recognition (NER) processor with a BERT-BiLSTM-CRF model. Greatly outperformed production-grade NER tools like spaCy and Flair.

- June– **FirstEigen**, *Machine Learning Intern*, Chicago.  
November 2018 Explored anomaly detection methods on unstructured, noisy data (e.g. unsupervised kNN and Local Outlier Probability).

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## References

**Hari Sundaram**, *Professor*, UIUC, [hs1@illinois.edu](mailto:hs1@illinois.edu).  
**Ewa Maslowska**, *Assistant Professor*, UIUC, [ehm@illinois.edu](mailto:ehm@illinois.edu).  
**Minxing Liu**, *Intern Manager*, Meta, [mxliu@fb.com](mailto:mxliu@fb.com).  
**Wen-mei Hwu**, *Senior Distinguished Research Scientist*, NVIDIA, [w-hwu@illinois.edu](mailto:w-hwu@illinois.edu).  
**Jinjun Xiong**, *Professor*, University at Buffalo, [jinjun@buffalo.edu](mailto:jinjun@buffalo.edu).  
**Yu (Hugo) Chen**, *Intern Manager*, Meta, [hugochen@fb.com](mailto:hugochen@fb.com).

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## Publications

- Findings of EMNLP 2022 **Audience-Centric Natural Language Generation via Style Infusion.**  
**Samraj Moorjani**, Adit Krishnan, Hari Sundaram, Ewa Maslowska, Aravind Sankar

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## Teaching

- Fall 2022 **Teaching Assistant**, *CS441: Applied Machine Learning*.  
Spring 2022 **Course Assistant**, *CS498CA: Computational Advertising*.  
Fall 2021 **Course Assistant**, *CS374: Algorithms and Models of Computation*.  
Spring 2021 **Course Assistant**, *CS374: Algorithms and Models of Computation*.  
Fall 2020 **Course Assistant**, *CS126: Software Design Studio*.  
Spring 2020 **Course Assistant**, *CS126: Software Design Studio*.

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## Academic/Professional Service

- 2022 **Reviewer**, *EMNLP*.  
2022 **Subreviewer**, *CIKM, SIGKDD, WSDM*.  
2021 **HackIllinois**, *Outreach Member*.  
2020-2021 **Reflections|Projections**, *Website Developer*.

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## Relevant Coursework

**2022**, Advanced Natural Language Processing, Knowledge-Driven Natural Language Generation, Statistical Reinforcement Learning, Antisocial Computing.  
**2021**, Natural Language Processing, Machine Learning, Deep Learning, Computational Advertising.  
**2020**, Database Systems, Probability and Statistics, Numerical Methods, Algorithms and Models of Computation.