

Sriram Balasubramanian

📍 College Park, MD ✉ sriramb@umd.edu 🌐 www.sriram.live in sriramb1998 📄 Google Scholar

Education

University of Maryland, College Park	August 2021 – May 2026
PhD and MS in Computer Science (advised by Prof. Soheil Feizi)	GPA: 4.0
Indian Institute of Technology, Bombay	August 2016 – May 2020
B. Tech (Hons) in Computer Science & Engineering (advised by Prof. Sunita Sarawagi)	GPA: 9.56/10.0

Work Experience

Research Intern Adobe (Document Intelligence Lab)	San Jose, CA May 2025 – August 2025
<ul style="list-style-type: none"> Created a recipe to curate data and <i>post-train</i> LLMs using SFT and RL based algorithms to generate <i>citations</i> to answers by utilizing a decomposition based strategy. Preprint available here. Designed a new prompting strategy and a prompt optimization pipeline to improve attribution methods in Acrobat AI assistant by up to 10%. 	
AI Researcher RelAI	College Park, MD June 2023 - August 2023
<ul style="list-style-type: none"> Developed and designed multiple applications to enhance vision model reliability for RelAI Involved in the development of RelAI, contributing from the inception stage through planning, execution, and deployment phases. 	
Research Intern Comcast	Washington D.C. June 2022 - August 2022
<ul style="list-style-type: none"> Investigated the effectiveness of transfer learning in deep neural networks in the low resource regime (when the target domain has very limited data). Devised non-neural methods which could outperform both traditional collaborative filtering methods and neural networks in this regime. 	
Research Fellow Microsoft Research	Bangalore, India August 2020 – August 2021
<ul style="list-style-type: none"> Predicting e-mail arrivals and reads: Built machine learning models to predict e-mail arrivals and reads from user type and history of arrivals/reads to improve cache hit rates. Simulating network paths using ML: Built machine learning models to simulate internet paths using static network traces 	

Publications and Preprints

Decomposition-Enhanced Training for Post-Hoc Attributions In Language Models S Balasubramanian, S Basu, K Goswami, R Rossi, V Manjunatha, R Santhosh, R Zhang, S Feizi, N Lipka <i>European Chapter of the Association for Computational Linguistics, Main</i> , 2026
A Closer Look at Bias and Chain-of-Thought Faithfulness of Large (Vision) Language Models S Balasubramanian, S Basu, S Feizi <i>Empirical Methods in Natural Language Processing (EMNLP), Findings</i> , 2025
Decomposing and Interpreting Image Representations via Text in ViTs Beyond CLIP S Balasubramanian, S Basu, S Feizi Spotlight at <i>Mechanistic Interpretability Workshop, ICML</i> , 2024 <i>Advances in Neural Information Processing Systems (NeurIPS)</i> , 2024
Exploring Geometry of Blind Spots in Vision Models S Balasubramanian*, G Sriramanan*, VS Sadasivan, S Feizi Spotlight at <i>Advances in Neural Information Processing Systems (NeurIPS)</i> , 2023

Towards Improved Input Masking for Convolutional Neural Networks

S Balasubramanian, S Feizi

IEEE/CVF International Conference on Computer Vision (ICCV), 2023

What's in a Name? Are BERT Named Entity Representations just as Good for any other Name?

S Balasubramanian*, N Jain*, G Jindal*, A Awasthi, S Sarawagi

Rep4NLP Workshop @ Annual Meeting of the Association of Computational Linguistics (ACL), 2020

Can AI-Generated Text be Reliably Detected? Stress Testing AI Text Detectors Under Various Attacks

VS Sadasivan, A Kumar, S Balasubramanian, W Wang, S Feizi

Transactions on Machine Learning Research (TMLR), 2025

Media coverage at [Washington Post](#) [🔗](#), [Wired](#) [🔗](#), [TechSpot](#) [🔗](#), [New Scientist](#) [🔗](#)

Rethinking Copyright Infringements in the Era of Text-to-Image Generative Models

M Moayeri, S Balasubramanian, S Basu, P Kattakinda, A Chegini, R Brauneis, S Feizi

International Conference on Learning Representations (ICLR), 2025

Gaming Tool Preferences in Agentic LLMs

K Faghih, W Wang, Y Cheng, S Bharti, G Sriramanan, S Balasubramanian, P Hosseini, S Feizi

Empirical Methods in Natural Language Processing (EMNLP), Main Conference, 2025

Simulating Network Paths with Recurrent Buffering Units

D Anshumaan*, S Balasubramanian*, S Tiwari, N Natarajan, S Sellamanickam, VN Padmanabhan

AAAI Conference on Artificial Intelligence (AAAI), 2023

Hop, Skip, and Overthink: Diagnosing Why Reasoning Models Fumble during Multi-Hop Analysis

A Yadav, I Nalawade, S Pillarichety, Y Babu, R Ghosh, S Basu, W Zhao, W Zhao, A Nasaeh, S Balasubramanian, S Srinivasan

arXiv preprint arXiv:2508.04699, 2025

Seeing What's Not There: Spurious Correlation in Multimodal LLMs

P Hosseini, S Nawathe, M Moayeri, S Balasubramanian, S Feizi

arXiv preprint arXiv:2503.08884, 2025

A Survey on Mechanistic Interpretability for Multi-Modal Foundation Models

Z Lin, S Basu, M Beigi, V Manjunatha, RA Rossi, Z Wang, Y Zhou, Y Zhou, S Balasubramanian, A Zarei,

K Rezaei, Y Shen, B Menglong Yao, Z Xu, Q Liu, Y Zhang, Y Sun, S Liu, L Shen, H Li, S Feizi, L Huang

arXiv preprint arXiv:2502.17516, 2025

Services and Teaching

- Reviewer for prominent machine learning conferences such as ICML 2024, NeurIPS 2024 (Top Reviewer), ICLR 2025, NeurIPS 2025 (Top Reviewer)
- Introduced high-school students to AI as an instructor as part of [TRAILS AI Summer Camp](#) [🔗](#)
- Teaching Assistant for Programming Handheld Systems (CMSC 436), Probability and Statistics (STAT 400) at UMD College Park; and Data Interpretation and Analysis (CS 215) and Electricity and Magnetism (PH 108) at IIT Bombay.

Awards and Honors

- Awarded Dean's Fellowship at the University of Maryland for the first year of PhD [2023]
- Awarded Institute Academic Prize for exceptional academic performance in IIT Bombay [2017]
- Ranked **2nd** in the institute out of about 900 students in the first year at IIT Bombay [2017]
- Ranked **4th** in JEE Mains out of 1.2 million candidates all over India [2016]
- Ranked **92nd** in JEE Advanced out of 150,000 candidates all over India [2016]
- Ranked **2nd** in the Maharashtra State Board Examinations (12th grade) [2016]
- Awarded KVPY Fellowship by the Government of India [2015]
- Awarded NTSE scholarship by N.C.E.R.T [2014]