

# Sriram Balasubramanian

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## Education

<b>University of Maryland, College Park</b> <i>PhD and MS in Computer Science (advised by Prof. Soheil Feizi <a href="#">🔗</a>)</i>	August 2021 – May 2026 GPA: 4.0
<b>Indian Institute of Technology, Bombay</b> <i>B. Tech (Hons) in Computer Science &amp; Engineering (advised by Prof. Sunita Sarawagi <a href="#">🔗</a>)</i>	August 2016 – May 2020 GPA: 9.56/10.0

## Work Experience

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

## Publications and Preprints

<b>A Closer Look at Bias and Chain-of-Thought Faithfulness of Large (Vision) Language Models</b> S Balasubramanian, S Basu, S Feizi <i>Empirical Methods in Natural Language Processing (EMNLP), Findings, 2025</i>
<b>Decomposing and Interpreting Image Representations via Text in ViTs Beyond CLIP</b> S Balasubramanian, S Basu, S Feizi <b>Spotlight</b> at <i>Mechanistic Interpretability Workshop, ICML, 2024</i> <i>Advances in Neural Information Processing Systems (NeurIPS), 2024</i>
<b>Exploring Geometry of Blind Spots in Vision Models</b> S Balasubramanian*, G Sriramanan*, VS Sadasivan, S Feizi <b>Spotlight</b> at <i>Advances in Neural Information Processing Systems (NeurIPS), 2023</i>
<b>Towards Improved Input Masking for Convolutional Neural Networks</b> S Balasubramanian, S Feizi <i>IEEE/CVF International Conference on Computer Vision (ICCV), 2023</i>

## 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

## 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

*arXiv preprint arXiv:2510.25766*, 2025

## 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

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- 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

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- 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]