

# 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>	<i>August 2021 – May 2026</i> 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>	<i>August 2016 – May 2020</i> GPA: 9.56/10.0

## Work Experience

<b>Research Intern</b> <i>Adobe (Document Intelligence Lab)</i>	<i>San Jose, CA</i> <i>May 2025 – August 2025</i>
○ Created a recipe to curate data and <i>post-train LLMs</i> 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> .	
○ Designed a new prompting strategy and a prompt optimization pipeline to improve attribution methods in Acrobat AI assistant by up to 10%.	
<b>AI Researcher</b> <i>RelAI <a href="#">↗</a></i>	<i>College Park, MD</i> <i>June 2023 - August 2023</i>
○ 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.	
<b>Research Intern</b> <i>Comcast</i>	<i>Washington D.C.</i> <i>June 2022 - August 2022</i>
○ 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.	
<b>Research Fellow</b> <i>Microsoft Research</i>	<i>Bangalore, India</i> <i>August 2020 – August 2021</i>
○ <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.	
○ <b>Simulating network paths using ML:</b> Built machine learning models to simulate internet paths using static network traces	

## Publications and Preprints

**A Closer Look at Bias and Chain-of-Thought Faithfulness of Large (Vision) Language Models**  
**S Balasubramanian**, S Basu, S Feizi  
*Empirical Methods in Natural Language Processing (EMNLP), Findings*, 2025

**Decomposing and Interpreting Image Representations via Text in ViTs Beyond CLIP**  
**S Balasubramanian**, S Basu, S Feizi  
*Spotlight at Mechanistic Interpretability Workshop, ICML*, 2024  
*Advances in Neural Information Processing Systems (NeurIPS)*, 2024

**Exploring Geometry of Blind Spots in Vision Models**  
**S Balasubramanian\***, G Sriramanan\*, VS Sadasivan, S Feizi  
*Spotlight at Advances in Neural Information Processing Systems (NeurIPS)*, 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

## 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]