





Vinu Sankar Sadasivan

III-year PhD Student
Department of Computer Science
The University of Maryland, College Park
[Research Interests](#) — AI/ML Security & Privacy, GenAI


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EDUCATION

The University of Maryland, College Park Ph.D. & M.S. in CS advised by Prof. Soheil Feizi	<i>Aug '21 – Apr '26 (Expected)</i> GPA - 4.00/4.00
Indian Institute of Technology, Gandhinagar B. Tech. in CSE [ Director's Silver Medalist]	<i>Jul '16 – Jul '20</i> GPA - 9.21/10.00

RESEARCH PAPERS

Can AI-Generated Text be Reliably Detected?

VS Sadasivan, A Kumar, S Balasubramanian, W Wang, S Feizi
Preprint on arXiv. March, 2023. [\[PDF\]](#)
[Media Coverage](#): Washington Post, Wired, New Scientist, The Register, TechSpot

Exploring Geometry of Blind Spots in Vision Models

S Balasubramanian*, G Sriramanan*, **VS Sadasivan**, S Feizi
Accepted ([spotlight](#)) at Neural Information Processing Systems (NeurIPS), 2023.

Robustness of AI-Image Detectors: Fundamental Limits and Practical Attacks

M Saberi, **VS Sadasivan**, K Rezaei, A Kumar, A Chagini, W Wang, S Feizi
Preprint on arXiv. September, 2023. [\[PDF\]](#)
[Media Coverage](#): Wired, The Register

Provable Robustness for Streaming Models with a Sliding Window

A Kumar, **VS Sadasivan**, S Feizi
Preprint on arXiv. March, 2023. [\[PDF\]](#)

CUDA: Convolution-based Unlearnable Datasets

VS Sadasivan, M Soltanolkotabi, S Feizi
Accepted at Computer Vision and Pattern Recognition Conference (CVPR), 2023. [\[PDF\]](#)

Statistical Measures For Defining Curriculum Scoring Function

VS Sadasivan, A Dasgupta
Accepted ([spotlight](#)) at SubSetML Workshop at International Conference on Machine Learning (ICML), 2021. [\[PDF\]](#)

Shallow RNN: Accurate Time-series Classification On Resource Constrained Device

D Dennis, DAE Acar, V Mandikal, **VS Sadasivan**, V Saligrama, HV Simhadri, P Jain
In Advances in Neural Information Processing Systems (NeurIPS), 2019. [\[PDF\]](#)

High Accuracy Patch-Level Classification Of Wireless Capsule Endoscopy Images Using A Convolutional Neural Network

VS Sadasivan, CS Seelamantula
In IEEE 16th International Symposium on Biomedical Imaging (IEEE ISBI), 2019. [\[PDF\]](#)

* equal contribution

RESEARCH EXPERIENCES

UMD, College Park <i>Research Assistant in CS</i>	<i>Aug '21 – Present</i> Advisor: Prof. Soheil Feizi
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IIT Gandhinagar, India
Junior Research Fellow in CSE

Aug '20 – Jul '21
Advisor: [Prof. Anirban Dasgupta](#)

California Institute of Technology, Pasadena
Undergraduate Research Fellow in Astronomy Department

May – Jul '19
Advisor: [Dr. Ashish Mahabal](#)

Microsoft Research India, Bangalore
Research Intern in Machine Learning and Optimization Group

Jan – Apr '19
Advisors: [Dr. Harsha Simhadri](#) & [Dr. Prateek Jain](#)

Indian Institute of Science (IISc), Bangalore
Research Intern at Spectrum Lab for Signal Processing

May – Jul '17, Dec '17, Feb '18, May – Jul '18
Advisor: [Prof. Chandra Seelamantula](#)

AWARDS AND HONORS

- [Kulkarni Fellowship Awardee](#) at University of Maryland in 2023.
- [Notable reviewer](#) top $\sim 1\%$ reviewer in ICLR 2023.
- [Director's Silver Medalist](#) CSE, IIT Gandhinagar in 2020.
- [Special mention for poster](#) Undergraduate Research Conclave, IIT Gandhinagar in 2019.
- [Summer Undergraduate Research Fellow](#) Caltech in 2019 (~ 6350 USD).
- [Kerala State Topper, Regional Mathematics Olympiad](#) in 2014.
- [KVPY awardee](#) by Government of India in 2016. Ranked 85 out of $\sim 100,000$.
- [NTSE scholar](#) awarded by Government of India in 2012.

SERVICES & TEACHING

- I have served as a *reviewer* for prominent machine learning conferences such as ICML 2021, NeurIPS 2022, ICLR 2023 ([Notable reviewer](#)), NeurIPS 2023, ICML Neural Compression Workshop 2023.
- I have *assisted in teaching* (TA) CMSC 422: Introduction to Machine Learning (Fall 2021) and CMSC 320: Introduction to Data Science (Spring 2022) at UMD.
- I have been a *Peer-Assisted Learning mentor* at IIT Gandhinagar, helping freshmen who found it difficult to cope with their academic workload.

RESEARCH REPORTS

OSSuM: A Gradient-Free Approach For Pruning Neural Networks At Initialization
VS Sadasivan, J Malaviya, and A Dasgupta [\[PDF\]](#)

Improved Generalized Adaptive Exponential Functional Link Network Approximates
VS Sadasivan, SS Bhattacharjee, V Patel, and NV George [\[PDF\]](#)

FPGA-Based Area, Power, and Latency Optimized Approximate Multipliers For Neural Networks
VS Sadasivan, CK Jha, and J Mekie [\[PDF\]](#)