Sai Saketh Rambhatla

📞 +1 (646) 737-2925 🛛 sakethrambhatla@gmail.com 🔗 rssaketh.github.io 🖇 Saketh R 🛛 in rssaketh

Summary _____

I am a Postdoctoral Researcher at Meta AI Research, where I am part of a team advancing state-of-the-art video generation methods. I earned my PhD in Electrical Engineering from the University of Maryland, College Park, where I developed algorithms for supervised, semi-supervised and unsupervised problems like localization and discovery of novel categories, few-shot classification, robust object detection, tracking, and neural network ensembles.

Employment _____

Postdoctoral Researcher, Meta Al Research, New York	Jan. 2023 to Present
• Developed novel Gen-AI techiques for generation (Emu-Video, InstanceDiffusion) an	d evaluation (SelfEval).
Education	
PhD in Electrical Engineering, University of Maryland, College Park	Aug. 2016 to Dec. 2022
 Advisors: Rama Chellappa and Abhinav Shrivastava Thesis title: Towards in-the-wild Visual Understanding. 	
Masters in Electrical Engineering, University of Maryland, College Park	Aug. 2016 to Dec. 2021
Advisor: Rama Chellappa	
Dual degree in Electrical Engineering, Indian Institute of Technology, Kharagpur	June 2011 to June 2016
 Advisor: Pranab Kumar Datta and Rajeev Ranjan Sahay Thesis title: Body pose classification using Deep Learning. 	

Selected Publications _____

- SelfEval: Leveraging the discriminative nature of generative models for evaluation. *Saketh Rambhatla*, Ishan Misra Under submission
- Emu Video: Factorizing Text-to-Video Generation by Explicit Image Conditioning. Rohit Girdhar, Mannat Singh, Andrew Brown, Quentin Duval, Samaneh Azadi, *Sai Saketh Rambhatla*, Mian Akbar Shah, Xi Yin, Devi Parikh, Ishan Misra Under submission
- InstanceDiffusion: Instance-level Control for Image Generation Xudong Wang, Trevor Darrell, *Sai Saketh Rambhatla*, Rohit Girdhar, Ishan Misra Conference on Computer Vision and Pattern Recognition (CVPR), 2024
- MOST: Multiple Object localization with Self-supervised Transformers for object discovery. *Saketh Rambhatla*, Ishan Misra, Rama Chellappa, Abhinav Shrivastava International Conference on Computer Vision (ICCV), 2023
- SparseDet: Improving Sparsely Annotated Object Detection with Pseudo-positive Mining. *Saketh Rambhatla**, Saksham Suri*, Rama Chellappa, Abhinav Shrivastava International Conference on Computer Vision (ICCV), 2023
- The Pursuit of Knowledge: Discovering and Localizing New concepts using Dual Memory *Saketh Rambhatla*, Rama Chellappa, Abhinav Shrivastava International Conference on Computer Vision (ICCV), 2021

- Towards Discovery and Attribution of Open-world GAN Generated Images Saksham Suri*, Sharath Girish*, *Saketh Rambhatla*, Abhinav Shrivastava International Conference on Computer Vision (ICCV), 2021
- Recognizing actions using object states Nirat Saini, Bo He, Gaurav Shrivastava, *Saketh Rambhatla*, Abhinav Shrivastava International Conference on Learning Representations Workshops 2022
- An empirical analysis of boosting neural networks Saketh Rambhatla, Michael Jones, Rama Chellappa International Joint Conference on Neural Networks 2022
- Towards Accurate Visual and Natural Language-Based Vehicle Retrieval Systems Khorramshahi P.*, *Rambhatla S.**, Chellappa R. Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2021
- Towards real-time systems for vehicle re-identification, multi-camera tracking, and anomaly detection Peri N.*, Khorramshahi P.*, *Rambhatla S.**, Shenoy V., Rawat S.,Chen J.C., Chellappa R. Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2020
- Detecting Human-Object Interactions using Functional Common-Sense Ankan Bansal, *Sai Rambhatla*, Abhinav Shrivastava, Rama Chellappa Thirty-Fourth AAAI Conference on Artificial Intelligence, New York, USA, 2020
- A dual-path model with adaptive attention for vehicle re-identification Khorramshahi P., Kumar A., Peri N., *Rambhatla S. S.*, Jun-Cheng Chen, Rama Chellappa International Conference on Computer Vision (ICCV), Seoul, Korea, 2019
- Body Part Alignment and Temporal Attention for Video-Based Person Re-Identification *Sai Rambhatla*, Michael Jones Proceedings of the British Machine Vision Conference (BMVC), Cardiff, UK, 2019

Research Internships _____

Cruise AI, San Francisco (2022) Developed efficient algorithms for continual self-supervised learning. Advisors: Dr. Xiao Zhang, Dr. Carl Vondrick

Mitsubishi Electric Research Laboratory, Boston (2018, 2019)Advisor: Dr. Mike JonesWorked on video-based person re-identification and ensembles of deep neural networks.Advisor: Dr. Mike Jones

Awards ____

- Awarded the Ann G. Wylie Dissertation fellowship for the academic year 2021-22.
- Selected for the A. James Clark School of Engineering Future Faculty Cohort for the academic year 21-22.
- Awarded the prestigious George Corcoran Award for excellence in teaching for the academic year 2017-18.
- Awarded **Outstanding Teaching Assistant Award** for the academic year 2017-18.
- Awarded **Outstanding reviewer** for Neurips 2023.
- Awarded **Outstanding reviewer** for CVPR 2021.
- Awarded Best Paper Award (Honorary Mention) at ANTS 2016, Bangalore.

Academic Service _____

Reviewing

- CVPR ('19-'24), ECCV ('20-'24), ICCV ('19-'23), ICLR ('23-'24) Neurips 2023, ICML 2024.
- International Journal on Computer Vision (IJCV), IEEE Pattern Recognition Letters