

# Sanjoy Kundu

📍 362 West Glenn Avenue, Auburn, Alabama, AL 36830

✉️ szk0266@auburn.edu    ✉️ sanjoykundu.ece@gmail.com

🌐 <https://sanjoykundu.github.io/>    🎓 GoogleScholar

🐦 Twitter

🌐 LinkedIn

☎️ 405-762-5196

## Profile Summary

- 📌 About 4.5 years research experience in **computer vision** and **deep learning**
- 📌 Areas of interests are but not limited to multi-modal learning (text and image, text and video/audio), Generative models, Foundation models, scene graph generation, visual question answering, video understanding, image and video captioning etc.

## Experience

- Summer 2024    📌 **NEC Laboratory America Inc, Princeton, New Jersey**  
I worked on representation learning of multi-view ego-exo videos for procedure understanding in egocentric videos

## Education

- Fall 2023 – current    📌 **Ph.D., Auburn University, Auburn, Alabama** in Computer Science and Software Engineering (**Transferred from OSU**)
- Spr 20 – Sum 23    📌 **Ph.D., Oklahoma State University, Stillwater, Oklahoma** in Computer Science (**Transferred to AU**)
- 2016 – 2019    📌 **M.S., Stamford University, Bangladesh** in Computer Science and Engineering
- 2009 – 2013    📌 **B.S., Khulna University of Engineering and Technology** in Electronics and Communication Engineering

## Research Publications



- 1 S. Kundu, S. N. Aakur, and S. Trehan, “ALGO: Discovering Novel Actions in an Open World with Object-Grounded Visual Commonsense Reasoning,” *arXiv*, vol. arXiv:2406.05722, 2023 [**Accepted at ECCV 2024**]. 🌐 URL: <https://arxiv.org/abs/2406.05722>.
- 2 S. Kundu and S. N. Aakur, “IS-GGT : Iterative Scene Graph Generation With Generative Transformers,” *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023*, vol. pp. 6292-6301, 2023. 🌐 URL: [https://openaccess.thecvf.com/content/CVPR2023/html/Kundu\\_IS-GGT\\_Iterative\\_Scene\\_Graph\\_Generation\\_With\\_Generative\\_Transformers\\_CVPR\\_2023\\_paper.html](https://openaccess.thecvf.com/content/CVPR2023/html/Kundu_IS-GGT_Iterative_Scene_Graph_Generation_With_Generative_Transformers_CVPR_2023_paper.html).
- 3 S. N. Aakur, S. Kundu, and N. Gunti, “Knowledge Guided Learning: Open World Egocentric Action Recognition with Zero Supervision,” *Pattern Recognition Letter*, vol. 156, 38-45, 2022. 🌐 URL: <https://www.sciencedirect.com/science/article/abs/pii/S0167865522000733>.
- 4 S. Kundu, N. Gunti, B. Hendrickson, M. S, and S. Aakur, “Benchmark and Evaluation of Low Resource Object Detection in Biomedical Images,” *2020 IEEE Applied Imagery Pattern Recognition Workshop (AIPR), 2020*. 🌐 DOI: 10.1109/AIPR50011.2020.9425104.

## Skills

Coding    📌 **Python** (Advanced), C (Intermediate), Java (Intermediate)




## Skills (continued)

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- ML/DL tools     **Pytorch**, Tensorflow, Keras Open-Cv, Scikit-learn, Pandas, Numpy, SciPy, Matplotlib, NetworkX, etc.
- Misc.     Academic research, teaching




## Voluntary Activities

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- Summer 2022     **Mentored** graduate students in Oklahoma State University and Auburn University
- Summer 2022     **Mentored** one under-graduate student as part of the **REU program**
- Summer 2022     Worked as a **reviewer** for **NeuRIPs 2024, ICLR 2023, CVPR 2024, NeuRIPS 2023, CVPR 2022, ACM Multimedia 2021, RA-L, ICPR 2022, ICMLA 2023** etc.


## Awards

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- 2021     Received Graduate College **Robberson Summer 2021 Research and Creative Activity Grant** from Graduate College, Oklahoma State University
- 2000–2009     Obtained government and non-government scholarships for good academic performance
- 2003     Divisional and Institutional awards for creative writing

## Leadership Experience

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- 2022     Served as a **Sports Secretary** for Bangladesh Student Association, Oklahoma State University, Stillwater, OK