

Sounak Mondal

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 [LinkedIn](#)

 [Google Scholar](#)

RESEARCH INTERESTS

I am interested in research on **vision-language modeling**. My PhD thesis focuses on using **vision-language representation learning** and **mimodal foundation models (e.g., multimodal LLMs)** for modeling human visual attention (eye gaze).

EDUCATION

Stony Brook University, Stony Brook, NY

Doctor of Philosophy, Computer Science (GPA: 4.0/4.0)

Aug 2020 – Dec 2025 (Expected)

Advisors: Minh Hoai Nguyen, Dimitris Samaras, Gregory Zelinsky

Jadavpur University, Kolkata, India

Bachelor of Engineering, Computer Science & Engineering (GPA: 8.65/10, Rank: 3/54)

Aug 2013 – May 2017

EXPERIENCE

Meta

Research Scientist Intern, Reality Labs Research, Burlingame, CA

- Modeling Vision and Sensor Data via Multimodal LLMs.

Jun 2025 – Present

Research Scientist Intern, Reality Labs Research, Redmond, WA

- Vision-Language Modeling of Eye Gaze Behavior (paper published at ICCV'25).

Jun 2024 – Dec 2024

UII America

Research Intern, Computer Vision, Cambridge, MA

May 2023 – Aug 2023

- Vision-Language Modeling: Scene Graph Generation from captions using Large Language Models (LLMs).

CV Lab, Stony Brook University

Graduate Researcher, Stony Brook, NY

Nov 2020 – Present

- Vision-Language Modeling for gaze prediction (CVPR'23, ECCV'24), and gaze decoding (ICCV'25).

- Gaze prediction modeling for search (ECCV'22, CVPR'24, CVPR'25); multimodal modeling for gaze estimation (ECCV'24).

Samsung

NLP Engineer, Natural Language Processing Team, Bangalore, India

Jun 2017 – Aug 2020

- Enhancements of **Bixby** virtual assistant.
- Low resource intent classification via transfer learning
- Sequence labeling models for Named Entity Recognition and speech end-point detection
- Lightweight and fast text classification architecture (ICSC'20)

Summer Intern, SVoice Team, Bangalore, India

May 2016 – Jul 2016

- Context awareness in SVoice platform for Natural Language Processing

Indian Statistical Institute

Undergraduate Researcher, Kolkata, India

Jul 2015 – Jun 2017

- Video Action Recognition/Detection (ICAPR'17, ICVGIP Workshop'16).

SELECTED PUBLICATIONS

Generative Gaze Decoding via Multimodal LLMs

Under submission

Sounak Mondal, D. Samaras, G. Zelinsky, M. Hoai

Gaze-Language Alignment for Zero-Shot Prediction of Visual Search Targets from Human Gaze Scanpaths

ICCV 2025

Sounak Mondal, N. Sendhilnathan, T. Zhang, Y. Liu, M. Proulx, M.L. Iuzzolino, C. Qin, T.R. Jonker

Look Hear: Gaze Prediction for Speech-directed Human Attention

ECCV 2024

Sounak Mondal, S. Ahn, Z. Yang, N. Balasubramanian, D. Samaras, G. Zelinsky, M. Hoai

Gazeformer: Scalable, Effective and Fast Prediction of Goal-Directed Human Attention

CVPR 2023

Sounak Mondal, Z. Yang, S. Ahn, D. Samaras, G. Zelinsky, M. Hoai

Few-shot Personalized Scanpath Prediction	CVPR 2025
R. Xue, J. Xu, Sounak Mondal , H. Le, G. Zelinsky, M. Hoai, D. Samaras	
Unifying Top-down and Bottom-up Scanpath Prediction using Transformers	CVPR 2024
Z. Yang, Sounak Mondal , S. Ahn, R. Xue, G. Zelinsky, M. Hoai, D. Samaras	
Target-absent Human Attention	ECCV 2022
Z. Yang, Sounak Mondal , S. Ahn, G. Zelinsky, M. Hoai, D. Samaras	
Diffusion-Refined VQA Annotations for Semi-Supervised Gaze Following	ECCV 2024
Q. Miao, A. Graikos, J. Zhang, Sounak Mondal , M. Hoai, D. Samaras	
Characterizing Target-absent Human Attention	CVPRW 2022
Y. Chen, Z. Yang, S. Chakraborty, Sounak Mondal , S. Ahn, D. Samaras, M. Hoai, G. Zelinsky	

SELECTED AWARDS

- ICCV 2025 Doctoral Consortium
- CVPR 2023 Travel Grant Award
- ACM Best B.E. Thesis Award, 2017

ACADEMIC & TECHNICAL DETAILS

Graduate Courses: Computer Vision, Natural Language Processing, Robotics, Machine Learning, Database Systems

Languages & Frameworks: Python, C++, C, Java, PyTorch, TensorFlow, Hadoop (familiar), Spark (familiar)

Service: Reviewer for CVPR, ICCV, ICLR, NeurIPS, TPAMI