

# Sounak Mondal

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## 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 (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

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

## SELECTED AWARDS

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

## ACADEMIC & TECHNICAL DETAILS

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**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