

# Sagnik Majumder

✉ [sagnik@cs.utexas.edu](mailto:sagnik@cs.utexas.edu) | 🌐 [Webpage](#) | 🐙 [GitHub](#)

## EDUCATION

---

- DECEMBER 2025    **University of Texas at Austin (UT)-Austin**, Texas, United States  
Doctor of Philosophy and Master of Science in COMPUTER SCIENCE; **GPA: 3.96/4.0**
- JULY 2018    **Birla Institute of Technology and Science (BITS)-Pilani**, Pilani, Rajasthan, India  
Bachelor of Engineering (Hons.) in ELECTRONICS AND INSTRUMENTATION  
Thesis: "Neural Architecture Meta-learning via Reinforcement" | Advisor: [Prof. V. RAMESH](#)  
**GPA: 9.55/10, Distinction and ranked 2<sup>nd</sup> out of 100 students**

## INTERNSHIPS AND RESEARCH

---

- JUNE 2025 - present    **Research intern at Apple**  
Manager - [Dr. Ian Fasel](#)
- JAN 2020 - present    **Research assistant at UT Austin**  
Advisor - [Prof. Kristen Grauman](#)
- DEC 2022 - DEC 2024    **Visiting researcher at Meta AI**  
Manager - [Prof. Kristen Grauman](#)
- JUNE 2022 - DEC 2022    **Research scientist intern at Reality Labs Research, Meta**  
Manager - [Dr. Vamsi Krishna Ithapu](#)
- JAN 2018 - MAY 2019    **Research assistant at Goethe University**  
Advisor - [Prof. Visvanathan Ramesh](#)
- MAY 2017 - May 2019    **Research intern at Frankfurt Institute for Advanced Studies (FIAS)**  
Advisor - [Prof. Christoph Malsburg](#)

## PEER-REVIEWED PUBLICATIONS AND SUBMISSIONS

---

- **Sagnik Majumder**, Tushar Nagarajan, Ziad Al-Halah, Kristen Grauman. "Switch-a-View: View Selection Learned from Unlabeled In-the-wild Videos". In submission. [\[arXiv\]](#), [\[Project Page\]](#).
- **Sagnik Majumder**, Tushar Nagarajan, Ziad Al-Halah, Reina Pradhan, Kristen Grauman. "Which Viewpoint Shows it Best? Language for Weakly Supervising View Selection in Multi-view Instructional Videos". **CVPR 2025 (Highlight)**. [\[arXiv\]](#), [\[Project Page\]](#).
- Arjun Somayazulu, **Sagnik Majumder**, Changan Chen, Kristen Grauman. "ActiveRIR: Active Audio-Visual Exploration for Acoustic Environment Modeling". **IROS 2024 (Oral)**. [\[arXiv\]](#), [\[Project Page\]](#).
- **Sagnik Majumder**, Ziad Al-Halah, Kristen Grauman. "Learning Spatial Features from Audio-Visual Correspondence in Egocentric Videos". **CVPR 2024**. [\[arXiv\]](#), [\[Project Page\]](#).
- Kristen Grauman, ..., **Sagnik Majumder**, ..., Michael Wray. "Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives". **CVPR 2024 (Oral)**. [\[arXiv\]](#), [\[Project Page\]](#).
- **Sagnik Majumder**, Hao Jiang, Pierre Moulon, Ethan Henderson, Paul Calamia, Kristen Grauman\*, Vamsi Krishna Ithapu\*. "Chat2Map: Efficient Scene Mapping from Multi-Ego Conversations". **CVPR 2023**. [\[arXiv\]](#), [\[Project Page\]](#).

- **Sagnik Majumder**, Changan Chen\*, Ziad Al-Halah\*, Kristen Grauman. “Few-Shot Audio-Visual Learning of Environment Acoustics”. **NeurIPS 2022**. [[arXiv](#)], [[Project Page](#)].
- **Sagnik Majumder**, Kristen Grauman. “Active Audio-Visual Separation of Dynamic Sound Sources”. **ECCV 2022**. [[arXiv](#)], [[Project Page](#)].
- **Sagnik Majumder**, Ziad Al-Halah, Kristen Grauman. “Move2Hear: Active Audio-Visual Source Separation”. **ICCV 2021**. [[arXiv](#)], [[Project Page](#)].
- Changan Chen, **Sagnik Majumder**, Ziad Al-Halah, Ruohan Gao, Santhosh K. Ramakrishnan, Kristen Grauman. “Learning to Set Waypoints for Audio-Visual Navigation”. **ICLR 2021**. [[Publication](#)], [[Project Page](#)].
- **Sagnik Majumder**, Chinmoy Samant, Greg Durrett. “Model Agnostic Answer Reranking System for Adversarial Question Answering”. **EACL 2021 Student Research Workshop**. [[Publication](#)].
- Martin Mundt, **Sagnik Majumder**, Sreenivas Narasimha Murali, Panagiotis Panetsos, Visvanathan Ramesh. “Meta-learning Convolutional Neural Architectures for Multi-target Concrete Defect Classification with the CONcrete DEfect BRidge IMage Dataset”. **CVPR 2019**. [[Publication](#)], [[Codebase](#)].

## INVITED TALKS

---

|  |   |
|--|---|
| <a href="#">EgoVis at CVPR 2024</a>            | Learning Spatial Features from Audio-Visual Correspondence in Egocentric Videos |
| <a href="#">Sight and Sound at CVPR 2024</a>   | Learning Spatial Features from Audio-Visual Correspondence in Egocentric Videos |
| <a href="#">Sight and Sound at CVPR 2023</a>   | Chat2Map: Efficient Scene Mapping from Multi-Ego Conversations                  |
| <a href="#">NSA Lab at JHU</a>                 | Efficiently understanding 3D scenes using sight and sound                       |
| <a href="#">ECCV AV4D workshop 2022</a>        | Active Audio-Visual Separation of Dynamic Sound Sources                         |
| <a href="#">Sight and Sound at CVPR 2022</a>   | Active Audio-Visual Separation of Dynamic Sound Sources                         |
| <a href="#">Embodied AI seminar at Meta AI</a> | Active Audio-Visual Separation of Dynamic Sound Sources                         |

## PROFESSIONAL SERVICE

---

Workshop co-organizer: CVPR Embodied AI workshop 2022-23  
Reviewer: CVPR; ECCV; ICCV; NeurIPS; ICML; AAAI; RA-L; ICRA; BMVC; TNNLS

## ACADEMIC HONORS AND ACHIEVEMENTS

---

|                     |  |
|---------------------|--|
| JULY 2024           | Received the Professional Development Award from UT Austin for presenting my research at CVPR 2024 |
| JULY 2023           | Received the Professional Development Award from UT Austin for presenting my research at CVPR 2023 |
| NOVEMBER 2020       | TOEFL iBT: 118 (READING: 29, LISTENING: 30 SPEAKING: 29, WRITING: 30)                              |
| JULY 2018           | GRE: 334 (QUANTITATIVE: 170, VERBAL: 164, AWA: 5.0)  |
| JAN 2016 - JUN 2018 | Received academic excellence scholarship from BITS Pilani for 5 consecutive semesters              |
| AUGUST 2017         | Offered full-time role as machine learning engineer (software development) by Goldman Sachs India  |
| MARCH 2017          | Secured 2 <sup>nd</sup> place in paper presentation at APOGEE, BITS Pilani technical festival      |
| DECEMBER 2016       | Received DAAD WISE scholarship 2017 for research internship in Germany                             |
| JUNE 2014           | Ranked in top 0.50% in IIT-JEE and 64 in WBJEE   |
| FEBRUARY 2014       | Offered KVPY fellowship by the Department of Science and Technology, Govt. of India                |

## COURSEWORK

---

- Graduate: **Deep Learning Seminar; Reinforcement Learning: Theory & Practice; Robot Learning; Natural Language Processing; Spoken Language Technologies; Math in Deep Learning; Statistical Models for Health and Behavioral Sciences;**  
Algorithms: Techniques and Theory; Programming Languages;
- Undergraduate: Neural Networks & Fuzzy Logic; Machine Learning; Advanced Calculus; Linear Algebra and Complex Variables; Probability and Statistics; Computer Programming; Operating Systems; Object Oriented Programming; Advanced Computer Architecture; Algorithms and Complexity; Data Structures; Discrete Mathematics
- MOOC: [Stanford's CS231n: Convolutional Neural Networks for Visual Recognition](#);  
[Stanford's CS224n: Natural Language Processing with Deep Learning](#);  
[UC Berkeley's CS294: Deep Reinforcement Learning](#)

## SOFTWARE SKILLS

---

- Programming Language: Python; C; C++; Java; Matlab
- Autodifferentiation Framework: PyTorch; Tensorflow; Caffe
- Python Package: Numpy; Scipy; SK-learn; Matplotlib; Seaborn; Plotly
- Operating System: Linux (Debian, Ubuntu); MS Windows
- Distributed Version Control: Git
- Document Preparation:  $\text{\LaTeX}$ ; MS Word

## TEACHING EXPERIENCE

---

- SPRING 2025: Teaching assistant for "CS 381V: Visual Recognition" at UT Austin
- SEMESTER 1, 2017-18: Teaching assistant for "Neural Networks and Fuzzy Logic" at BITS Pilani

## CO-CURRICULAR ACTIVITIES

---

- 2016-17: Project coordinator of Instrumentation Forum, BITS Pilani
- 2014-17: Member of BITS Firefox Community, Google Developers' Group and Instrumentation Forum at BITS Pilani

## EXTRA-CURRICULAR ACTIVITIES

---

- 2016-17: Cultural secretary of Moruchhaya, the Bengali cultural association at BITS Pilani
- 2014-18: Member of Moruchhaya