

# Shraman Pramanick

## Curriculum Vitae

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### Research Interests

- **Multimodal Learning** (Vision + Language, Vision + Other Modalities)
- **Multimodal LLMs, Egocentric Vision, Video-Language Pre-training**

### Previous Affiliations

- July 2025 - **Meta, Menlo Park, CA, USA.**  
Present Postdoctoral Researcher in Segment Anything Team  
**Managers:** Pengchuan Zhang, Christoph Feichtenhofer
- Jan 2021 - **Johns Hopkins University, Baltimore, MD, USA.**
- July 2025 Ph.D. (with M.S.) in Electrical and Computer Engineering  
**Advisor:** Rama Chellappa, AIEM Lab, ECE (**GPA:** 4.0/4.0)
- 2016 - 2020 **Jadavpur University, Kolkata, WB, India.**  
Bachelor of Engineering (B.E.) in Electronics & Telecommunication Engineering  
**Advisor:** Amit Konar, AI Lab, ETCE (**GPA:** 9.41/10.0)

### Selected Publications

Please see [Google Scholar](#) for the complete list of publications.

#### Pre-prints

##### Conference Proceedings

- **Pramanick S.**, Mavroudi E., Song Y., Chellappa R., Torresani L., Afouras T., "Enrich and Detect: Video Temporal Grounding with Multimodal LLMs". **ICCV**, 2025. (Highlights) [[Paper](#) | [Project](#)]
- **Pramanick S.\***, Chellappa R., Venugopalan S.\* , "SPIQA: A Dataset for Multimodal Question Answering on Scientific Papers". **NeurIPS D&B**, 2024. [[Paper](#) | [Dataset](#) | [Code](#) | [Poster](#)]
- **Pramanick S.\***, Han G.\* , Hou R., Nag S., Lim S., Ballas N., Wang Q., Chellappa R., Almahairi A., "Jack of All Tasks, Master of Many: Designing General-purpose Coarse-to-Fine Vision-Language Model". **CVPR**, 2024. (Highlight, Top 2.8%) [[Paper](#) | [Project](#)]
- Grauman K. et al., "Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives". **CVPR**, 2024. (Oral, Top 0.8%) [[Paper](#) | [Project](#) | [Blog](#) | [Video](#)]
- **Pramanick S.**, Song Y., Nag S., Lin K., Shah H., Shou M., Chellappa R., Zhang P., "EgoVLPv2: Egocentric Video-Language Pre-training with Fusion in the Backbone". **ICCV**, 2023. [[Paper](#) | [Project](#) | [Code](#) | [Poster](#) | [Slides](#)]
- **Pramanick S.**, Nowara E.M., Gleason J., Castillo C.D., Chellappa R., "Where in the World is this Image? Transformer-based Geo-localization in the Wild". **ECCV**, 2022. [[Paper](#) | [Code+Data](#) | [Slides](#)]
- **Pramanick S.\***, Roy A.\* , Patel V., "Multimodal Learning using Optimal Transport for Sarcasm and Humor Detection". **WACV**, 2022. [[Paper](#)]
- **Pramanick S.\***, Sharma S\*., Dimitrov D., Aktar S., Nakov P., Chakraborty T., "MOMENTA: A Multimodal Framework for Detecting Harmful Memes and Their Targets". Findings of **EMNLP**, 2021. [[Paper](#) | [Code+Data](#) | [Poster](#) | [Slides](#)]
- **Pramanick S.**, Dimitrov D., Mukherjee R., Sharma S., Aktar S., Nakov P., Chakraborty T., "Detecting Harmful Memes and Their Targets". Findings of **ACL**, 2021. [[Paper](#) | [Code+Data](#) | [Slides](#)]

#### Journals

- **Pramanick S.\***, Jing L.\* , Nag S.\* , Zhu J., Shah H., LeCun Y., Chellappa R., "VoLTA: Vision-Language Transformer with Weakly-Supervised Local-Feature Alignment". **TMLR**, 2023. [[Paper](#) | [Project](#) | [Code](#)]

- Atri Y.\*, Pramanick S.\*, Goyal V., Chakraborty T., “See, Hear, Read: Leveraging Multimodality with Guided Attention for Abstractive Text Summarization”. *Knowledge-Based Systems*, Elsevier, 2021. [Paper | Code+Data]

## Research Experience

- June 2024 - **Research Scientist Intern**, FAIR, Meta.  
 Feb 2025 **Collaborator**: Triantafyllos Afouras, Yale Song, Effrosyni Mavroudi, & Lorenzo Torresani.  
 • Proposed ED-VTG, an approach for fine-grained video temporal grounding.
- October 2023 **Student Researcher**, Google Research.  
 - June 2024 **Collaborator**: Subhashini Venugopalan.  
 • Proposed SPIQA, a dataset for multimodal QA and grounding on scientific papers.
- June 2023 - **Research Scientist Intern**, GenAI, Meta.  
 October 2023 **Collaborators**: Nicolas Ballas, Amjad Almahairi, Guangxing Han, Rui Hou, & Qifan Wang.  
 • **Multimodal LLMs**: Proposed VistaLLM, a LLM-based framework for open-ended, customizable and unified coarse-to-fine vision-centric tasks over single and multiple input images.  
 • **Ego-Exo4D**: Pre-training EgoVLPv2 on Ego-Exo4D dataset for developing strong baselines.
- May 2022 - **Research Scientist Intern**, FAIR, Meta.  
 Mar 2023 **Collaborators**: Pengchuan Zhang, Li Jing, Yale Song, Hardik Shah, & Yann LeCun.  
 • **Egocentric Video-Language Pre-training**: Proposed EgoVLPv2, the second generation of egocentric video-language foundational model using cross-modal *fusion* in backbones.  
 • **Multimodal Dimension-Contrastive Pre-training**: Proposed VoLTA, a dimension-contrastive pre-training for image-caption pairs with explicit region-level understanding.
- Feb 2021 - **Graduate Research Assistant**, Johns Hopkins University.  
 June 2025 **Advisor**: Rama Chellappa, AIEM Lab, ECE  
 • Multimodal LLMs, vision-language pre-training, planet-scale single image geo-localization.
- May 2020 - **Research Associate**, QCRI (Doha) & IIIT-Delhi Collaboration.  
 Jan 2021 **Advisor**: Preslav Nakov & Tanmoy Chakraborty.  
 • Multimodal abstractive summarization, detecting harmful internet memes & their targets.
- May 2019 - **Mitacs Globalink Research Intern**, University of Montreal, Canada.  
 Aug 2019 **Advisor**: Antoine Saucier, Mathematical and Industrial Engineering.  
 • Worked on classical NR algorithms that preserve details, edges and fine patterns in images.

## Teaching Experience

- SP 2022-2024 **Machine Intelligence (EN.520.650)**, Johns Hopkins University.

## Selected Honors & Awards

- June 2024 [EgoVis 2022/2023 Distinguished Paper Award](#), for EgoVLPv2.  
 June 2024 Spot Bonus from Google, for exceptional contributions while being student researcher.  
 Jan 2021 JHU ECE Departmental Fellowship, awarded to outstanding incoming PhD students.  
 May 2019 Mitacs Globalink Research Internship, awarded to top-ranked applicants from 15 different countries to participate in a 12-week research internship in Canadian universities.  
 Oct 2016 [JBNSTS Senior Scholarship](#), 4-year scholarship for academic excellence during B.E.

## Voluntary Services

Reviewer for CVPR, ECCV, ICCV, WACV, ARR, ACL, TMLR, TPAMI, TNNLS, TAI, TIP, TAFFC.

## References

- Rama Chellappa, Bloomberg Distinguished Professor, Johns Hopkins University  
 Christoph Feichtenhofer, Director & Research Scientist, Meta  
 Pengchuan Zhang, Senior Staff Research Scientist, Meta  
 Yale Song, Research Scientist Manager, Google Cloud