

# 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](#)]

- o 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