Srikumar Sastry

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Education

Washington University in St Louis   **St Louis, MO, US**
PhD Candidate in Imaging Science   *Aug 2022 – present*
Multimodal Vision Research Lab (MVRL)

- GPA: 3.97/4.0
- **Coursework:** Machine Learning, Theoretical Imaging Science, Large Scale Optimization, Large Language Models
- Advised by Dr. Nathan Jacobs. Focusing on applications of multimodal learning in computer vision, remote sensing and ecology.

University of Twente   **Enschede, Netherlands**
MS Geoinformatics   *Aug 2020 – May 2022*

- GPA: 9.12/10.0 (*cum laude*)
- **Coursework:** Image Analysis, Advanced Image Analysis, Spatio-Temporal Modeling

DA-IICT   **Gandhinagar, India**
BTech Information and Communication Technology   *Aug 2016 – May 2020*

- GPA: 7.98/10.0 (*distinction*)
- **Coursework:** System Software, Software Engineering, Statistical Communication Theory

Selected Publications

- **Srikumar Sastry**, Subash Khanal, Aayush Dhakal, Jiayu Lin, Dan Cher, Phoenix Jarosz and Nathan Jacobs. "ProM3E: Probabilistic Masked MultiModal Embedding Model for Ecology." IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (2026).

- Aayush Dhakal, Subash Khanal, **Srikumar Sastry**, Jacob Arndt, Philipe Ambrozio Dias, Dalton Lunga, Nathan Jacobs. "SimLBR: Learning to Detect Fake Images by Learning to Detect Real Images." IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (2026).

- Anindya Sarkar*, **Srikumar Sastry***, Aleksis Pirinen, Nathan Jacobs and Yevgeniy Vorobeychik. "DiffVAS: Diffusion-Guided Visual Active Search in Partially Observable Environments" International Conference on Autonomous Agents and Multiagent Systems (AAMAS) (2026).

- **Srikumar Sastry**, Aayush Dhakal, Eric Xing, Subash Khanal and Nathan Jacobs. "Global and Local Entailment Learning for Natural World Imagery." IEEE/CVF International Conference Computer Vision (ICCV) (2025).

- Aayush Dhakal, **Srikumar Sastry**, Subash Khanal, Adeel Ahmad, Eric Xing and Nathan Jacobs. "RANGE: Retrieval Augmented Neural Fields for Multi-Resolution Geo-Embeddings." IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (2025).

- **Srikumar Sastry**, Subash Khanal, Aayush Dhakal, Adeel Ahmad and Nathan Jacobs. "TaxaBind: A Unified Embedding Space for Ecological Applications." IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) (2025). (**Oral Presentation**)

- Anindya Sarkar*, **Srikumar Sastry***, Aleksis Pirinen, Chongjie Zhang, Nathan Jacobs and Yevgeniy Vorobeychik. "GOMAA-Geo: GOal Modality Agnostic Active Geo-localization." Neural Information Processing Systems (NeurIPS) (2024).

- Subash Khanal, Eric Xing, **Srikumar Sastry**, Aayush Dhakal, Zhexiao Xiong, Adeel Ahmad and Nathan Jacobs. "PSM: Learning Probabilistic Embeddings for Multi-scale Zero-Shot Soundscape Mapping." ACM Multimedia (2024).

Experience

PhD Research Intern   *Sunnyvale, CA*
Dolby Laboratories   *May 2025 – August 2025*

- ○ Working on multimodal contrastive learning for Egocentric videos understanding.

Machine Learning Researcher   *St Louis, MO*
[IARPA SMART ⤤](#) — *Kitware*   *Aug 2022 – July 2024*

- ○ Developed self-supervised learning methods for global-scale change characterization involving multi-sensor and multitemporal satellite images.

Academic Service

Reviewing

- ○ **Conferences**
  - – International Conference on Machine Learning (ICML) [2025, 2026]
  - – IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) [2025, 2026]
  - – International Conference on Learning Representations (ICLR) [2025, 2026]
  - – Association for the Advancement of Artificial Intelligence (AAAI) [2026]
  - – Neural Information Processing Systems (NeurIPS) [2024 (**Outstanding Reviewer, Top 8%**) , 2025]
  - – ACM International Conference on Multimedia (ACM MM) [2025]
  - – European Conference on Computer Vision (ECCV) [2024]
- ○ **Journals**
  - – Transactions on Machine Learning Research (TMLR) [2025]
  - – IEEE MultiMedia [2025]
  - – International Society for Photogrammetry and Remote Sensing (ISPRS) [2024]
- ○ **Workshops**
  - – Earthvision, CVPR [2025]
  - – CV4EO, WACV [2024, 2025]

Teaching

- ○ Center for Environment Undergraduate Research Mentor, Summer [2023, 2024]
- ○ Graduate Student Instructor, CSE 559A Spring 2023

Awards

Outstanding PhD Research (Imaging Science)	*2025*
Outstanding Reviewer (NeurIPS)	*2024*

Memberships

IEEE Geoscience and Remote Sensing Society (GRSS)	*2021 – Present*
International Society for Photogrammetry and Remote Sensing (ISPRS)	*2022 – Present*
IEEE Computer Society	*2025 – Present*