Srikumar Sastry

📍 St Louis, MO   ✉ s.sastry@wustl.edu   🔗 vishu26.github.io   in srikumar-sastry   ⌂ vishu26

Education

Washington University in St Louis   **St Louis, MO, US**
PhD Candidate in Imaging Science   *Aug 2022 – present*

- 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

Publications

- **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).

- **Srikumar Sastry**, Subash Khanal, Aayush Dhakal and Nathan Jacobs. "GeoSynth: Contextually-Aware High-Resolution Satellite Image Synthesis." IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW) (2024): 460-470.

- Aayush Dhakal, Adeel Ahmad, Subash Khanal, **Srikumar Sastry** and Nathan Jacobs. "Sat2Cap: Mapping Fine-Grained Textual Descriptions from Satellite Images." IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW) (2024): 533-542. (**Best Paper Award, Oral Presentation**)

- Xin Xing, Zhexiao Xiong, Abby Stylianou, **Srikumar Sastry**, Liyu Gong and Nathan Jacobs. "Vision-Language Pseudo-Labels for Single-Positive Multi-Label Learning." IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW) (2024): 7799-7808.

- **Srikumar Sastry**, Subash Khanal, Aayush Dhakal, Di Huang and Nathan Jacobs. "BirdSAT: Cross-View Contrastive Masked Autoencoders for Bird Species Classification and Mapping." IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) (2024): 7121-7130.

- Aayush Dhakal, Subash Khanal, **Srikumar Sastry**, Adeel Ahmad and Nathan Jacobs. "GeoBind: Binding Text, Image, and Audio through Satellite Images." IEEE International Geoscience and Remote Sensing Symposium (2024): 2729-2733. (**Oral Presentation**)

- Subash Khanal, **Srikumar Sastry**, Aayush Dhakal and Nathan Jacobs. "Learning Tri-modal Embeddings for Zero-Shot Soundscape Mapping." British Machine Vision Conference (2023).

Experience

PhD Research Intern   *Sunnyvale, CA*
Dolby Laboratories   *May 2025 – August 2025*
  - Working on multimodal 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**
    - IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) [2025]
    - International Conference on Machine Learning (ICML) 2025
    - International Conference on Learning Representations (ICLR) [2025]
    - ACM International Conference on Multimedia (ACM MM) [2025]
    - International Conference on Artificial Intelligence and Statistics (AISTATS) [2025]
    - Neural Information Processing Systems (NeurIPS) [2024] (**Outstanding Reviewer, Top 8%**)
    - European Conference on Computer Vision (ECCV) [2024]
  - **Journals**
    - Transactions on Machine Learning Research (TMLR) 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

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*