

# Srikumar S. Sastry [s.sastry@wustl.edu](mailto:s.sastry@wustl.edu) | 314-629-7445 | [vishu26.github.io](https://github.com/vishu26)

INTERESTS | computer vision (SSL, Representation Learning), remote sensing, vision and language

## EDUCATION

PhD	Washington University in St Louis	Imaging Science	2022 – Expected 2027
MS	University of Twente	Geoinformation Science and Earth Observation	2020 - 2022
BTech	DA-IICT	Information and Communication Technology	2016 - 2020

## EXPERIENCE

[JARPA SMART](#) | [Kitware](#) | ML Research

Aug 2022 – present | St. Louis, MO

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

[GiSCoR](#) | ML Research

Oct 2023 – present | St. Louis, MO

Hosted by Chunyuan Diao, UIUC. Developing a geospatial framework for near-real time crop phenological characterization.

## RESEARCH

[Multimodal Vision Research Lab](#) | PhD Candidate

Aug 2022 – Present | Washington University in St. Louis

Advised by Prof. Nathan Jacobs. Focusing on applications of multimodal large language models in computer vision and remote sensing.

[Mariana Belgiu Lab](#) | Master Thesis

Apr 2021 – Jul 2022 | University of Twente

Developed bayesian active learning methods for satellite image classification and segmentation.

## PUBLICATIONS

GeoSynth: Contextually-Aware High-Resolution Satellite Image Synthesis

[Srikumar Sastry](#), Subash Khanal, Aayush Dhakal, Nathan Jacobs CVPRW, 2024. Press: [WUSTL News](#)

Sat2cap: Mapping fine-grained textual descriptions from satellite images

Aayush Dhakal, Adeel Ahmad, Subash Khanal, [Srikumar Sastry](#), Hannah Kerner, Nathan Jacobs CVPRW, 2024.

BirdSAT: Cross-View Contrastive Masked Autoencoders for Bird Species Classification and Mapping

[Srikumar Sastry](#), Subash Khanal, Aayush Dhakal, Di Huang, Nathan Jacobs WACV, 2024. Press: [WUSTL News](#)

Learning Tri-modal Embeddings for Zero-Shot Soundscape Mapping

Subash Khanal, [Srikumar Sastry](#), Aayush Dhakal, Nathan Jacobs BMVC, 2023.

Task Agnostic Cost Prediction Module for Semantic Labeling in Active Learning

[Srikumar Sastry](#), Nathan Jacobs, Mariana Belgiu, Raian V Maretto IGARSS, 2023.

## HONORS

Cum Laude (University of Twente), [ITC Excellence Scholarship](#), DA-IICT Merit Scholarship

## SERVICE

Reviewing: NeurIPS 2024, ECCV 2024, ISPRS (Vision Language Models for Remote Sensing) 2024.

## TECHNICAL SKILLS

Experienced | Tensorflow, PyTorch, Python, Google Earth Engine (Code), QGIS, ArcGIS

Familiar | R, Matlab, CloudCompare, Pix4D