

# Nam Nguyen

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## Education

**California Polytechnic State University, San Luis Obispo, California**

January 2023 – June 2024

M.S. **Computer Science**, *With Distinction*

Advised by Prof. Jonathan Ventura

**California Polytechnic State University, San Luis Obispo, California**

September 2019 – December 2022

B.S. **Computer Science**, *Summa Cum Laude*

## Publications

1. Nam Nguyen. Instant HDR-NeRF: Fast Learning of High Dynamic Range View Synthesis With Unknown Exposure Settings. Master's Thesis, 2024.
2. Krti Tallam, Nam Nguyen, Jonathan Ventura, Andrew Fricker, Sadie Calhoun, Jennifer O'Leary, Mauriça Fitzgibbons, Ian Robbins, and Ryan K Walter. Application of deep learning for classification of intertidal eelgrass from drone-acquired imagery. *Remote Sensing*, 15(9):2321, 2023.

## Presentations

1. Nam Nguyen, Edward Du, and Jonathan Ventura. HDR-NeRF--: Learning High Dynamic Range View Synthesis With Unknown Exposure Settings. Paper. *XRNeRF: Advances in NeRF for the Metaverse Workshop, Conference on Computer Vision and Pattern Recognition (CVPR)*, Vancouver, Canada, 2023.
2. Shivam Ajisa, Edward Du, Nam Nguyen, Stefanie Zollmann and Jonathan Ventura. 3D Pano Inpainting: Building a VR Environment from a Single Input Panorama. Poster. *The 31<sup>st</sup> IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR)*, Orlando, FL, 2024.
3. Nam Nguyen, Jessica Baiza, Griffen Guizan, Camille Pawlak, Sara Arnold, Ryley Chase, Lexxie Crocker, Jenn Yost, Matt Ritter, Geoffrey A Fricker, and Jonathan Ventura. OpenCanopy: Leveraging aerial imagery and deep learning to delineate California's urban tree canopy. Poster. *Southern California Data Science Day, The 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, Long Beach, CA, 2023.

## Experiences

**Remix Inc**, Computer Vision Lead

July 2024 – Present

Working on novel view synthesis methods for real-time 3D reconstruction from a live panoramic video stream, and developing an optimized web renderer for 3D live-streaming in VR headset through WebXR.

**Cal Poly, San Luis Obispo**, Research Scientist

July 2024 – Present

Developing novel view synthesis methods for sparse and unconstrained inputs. Helping advising undergraduate and graduate students on various 3D computer vision research topics, including 3D generation and reconstruction.

**Remix Inc**, Computer Vision Engineer Intern

September 2023 – March 2024

Worked on novel view synthesis methods for real-time 3D reconstruction from a live panoramic video stream.

**Cal Poly, San Luis Obispo**, Graduate Research Assistant

*3D Computer Vision Lab*

May 2022 – June 2024

- Worked on extending 3D view synthesis methods to improve performance with casually captured data, including a set of unconstrained images captured by smartphones, or a single image.

*Deep Learning GIS Lab*

September 2021 – June 2024

- Worked on integrating deep learning in different applications of remote sensing.

**Cal Poly, San Luis Obispo**, Instructional Student Assistant

January 2023 – September 2023

Assisted students with labs and class questions, and graded assignments and exams. Classes include:

- CSC 466 – Knowledge Discovery in Data
- DATA 301 – Introduction to Data Science
- CSC 365 – Introduction to Database Systems

Winter 2023

Spring 2023

Summer 2023

Last Updated October 2024

## **Services**

Reviewer for WACV 2024, CVPR 2024, ECCV 2024

Guest Lecturer for CPE/EE 428 – Computer Vision

Winter 2024

## **Skills**

Python, Numpy, Pytorch, Tensorflow, OpenCV, OpenGL, CUDA, ArcGIS, QGIS, GDAL