

Anand Srinivasan

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Education

Yale University, BS in Computer Science Aug 2021 – May 2025

- GPA: 3.92/4.00
- *Coursework*: Advanced Computational Vision, 3D Spatial Modeling & Computing, Algorithms, Biochemistry I & II
- *Awards*: First Year Summer Fellowship in the Sciences & Engineering

Publications

Srinivasan, A., Raja, R., Glass, J., Hudson, M., Sabin, N., Krull, K., Reddick, W. 2024. Graph Neural Network Learning on the Pediatric Structural Connectome. (*under review*)

Research

Research Assistant, Aneja Lab May 2022 – Present
Yale School of Medicine, New Haven, CT

Evaluating the Adversarial Robustness of Capsule Networks in Medical Imaging Applications

- Conducted a comparative analysis of the adversarial robustness of capsule networks and convolutional neural networks for three medical image classification tasks.

Classifying Treatment Response Phenotypes in Non-Small Cell Lung Cancer

- Automated the labeling of bounding boxes around CT scan tumor segmentations for deep learning model training.

Undergraduate Senior Thesis, Rakita Lab Aug 2024 – May 2025
Yale Department of Computer Science, New Haven, CT

3D Scene Reconstruction for IMA Division in Robotic Surgery [working draft]

- Created a 3D reconstruction pipeline from monocular endoscopic input using depth and pose estimation ahead of 4D Gaussian Splatting.

Pediatric Oncology Education Program, Reddick Lab May 2024 – Aug 2024
St. Jude Children's Research Hospital, Memphis, TN

Graph Neural Network Learning on the Pediatric Structural Connectome

- Trained graph neural network models for pediatric connectome sex classification.
- Investigated the impact of data enrichment training techniques and graph neural network architectural design choices, including pooling operations, model depth, and residual connections on learning ability.

Teaching

Teaching Assistant, Intro to Computer Science (CS50) – Yale University, New Haven, CT Aug 2024 – Dec 2024

Teaching Assistant, Data Structure & Algorithms (CS223) – Yale University, New Haven, CT Jan 2023 – Dec 2023

Teaching Intern, Introductory Computer Science – Choate Rosemary Hall, Wallingford, CT Jun 2023 – Aug 2023

Leadership

Purple Crayon of Yale – Yale University, New Haven, CT Sept 2021 – Present
Director (Dec 2022 – Dec 2023)

- Planned rehearsals and shows for The Purple Crayon, a long-form improv comedy troupe.
- Promoted collaboration, active listening, laughter.

Skills

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- *Technical Skills*: AWS, Git, Linux.
 - *Programming Languages*: Python, C, JavaScript, Rust.