

TRANG NGUYEN ANH THUAN

Ho Chi Minh City, Vietnam

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OBJECTIVE

AI Researcher with more than 2 years of experience in Deep Learning for processing 3D computer vision and other long-range datasets, seeking for a PhD position.

EDUCATION

Bachelor of Information Technology, RMIT University

2018 - 2021

EXPERIENCE

AI Resident

May 2021 - August 2023

FPT AI Center

Ho Chi Minh City, Vietnam

- Researching about point clouds and videos, mainly mentored by Prof. Truong Son Hy, Dr. Thieu N. Vo, and Prof. Siamak Ravanbakhsh.
- Working with Efficient Self-attention Modules, Group Equivariant Neural Networks on 3D objects such as point clouds and meshes.
- Assisting another resident with a project related to open-vocabulary semantic segmentation in video.

PUBLICATIONS

Thuan N.A. Trang*, Khang Nhat Ngo*, Daniel Levy*, Thieu N. Vo, Siamak Ravanbakhsh, Truong Son Hy. **E(3)-Equivariant Mesh Neural Networks** - AISTAT 2024. [[paper](#)][[abstract](#)][[code](#)][[poster](#)]

Thuan N.A. Trang*, Khang Nhat Ngo*, Hugo Sonnerly*, Thieu N. Vo, Siamak Ravanbakhsh, Truong Son Hy. **Scalable Hierarchical Self-Attention with Learnable Hierarchy for Long-Range Interactions** - TMLR 2024. [[paper](#)][[abstract](#)][[code](#)][[video](#)]

Hugo Sonnerly*, **Thuan N.A. Trang***, Thieu N. Vo, Siamak Ravanbakhsh, Truong Son Hy. **Sequoia: Hierarchical Self-Attention Layer with Sparse Updates for Point Clouds and Long Sequences** - ICLR 2023 Workshop SNN. [[paper](#)][[poster](#)]

OTHER PROJECTS

OpenVocab for Video Instance Segmentation (2023) This project aims to adapt the open-vocab segmentation from image to video. Similar to images, we take advantage of CLIP to map between texts and frames in a video. Apart from that, we also use techniques on the video to aggregate the temporal features.

PROGRAMMING TOOLS

Python, Pytorch, PyTorch Geometric, Plotly, Matplotlib, Pandas, Numpy, Docker, and Linux.

AWARDS

50% of Education fees - RMIT University

REFERENCES

Prof. Truong Son Hy [[website](#)] - tshy@ucsd.edu

Halicioglu Data Science Institute, University of California San Diego

Dr. Thieu N. Vo [[website](#)] - vongochieu@tdtu.edu.vn

Ton Duc Thang University, FPT Software

Prof. Siamak Ravanbakhsh [[website](#)] - siamak@cs.mcgill.ca

Assistant Professor, McGill University, Canada CIFAR AI Chair