

# Shr-Ruei Tsai

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## EDUCATION

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**National Yang Ming Chiao Tung University (NYCU)**

**Hsinchu, Taiwan**

B.S. in Computer Science

Jul. 2021 - Present

GPA : 4.06/4.3 (Overall), 4.16/4.3 (Major)

Relevant Courses : Introduction to Database Systems, Introduction to Computer Graphics, Introduction to AI, Introduction to Image Processing, Introduction to ML, Computer System Administration

## EXPERIENCES

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**Undergraduate Research Assistant in Comp Photo Lab**

Jul. 2023 - Present

Advisor : Prof. Yu-Lun Liu

Research Topic : MVS-based Neural Radiance Fields

**Undergraduate Research Assistant**

**in Frontier Materials & Engineering Alloys Laboratory (FMEAL)**

Oct. 2023 - Present

Advisor : Prof. E-Wen Huang

Research Topic : ML in Shape Memory Alloys

## PUBLICATION

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**BoostMVSNeRFs:**

**Boosting MVS-based NeRFs to Generalizable View Synthesis in Large-scale Scenes**

Chih-Hai Su\*, Chih-Yao Hu\*, Shr-Ruei Tsai\*, Jie-Ying Lee\*, Chin-Yang Lin, Yu-Lun Liu (\* denotes equal contribution)

This work is currently under review at SIGGRAPH 2024.

BoostMVSNeRFs aims to enhance the rendering quality of MVS-based NeRFs in large-scale scenes, and our method shows significant rendering quality improvements in large-scale scenes and unbounded outdoor scenarios.

## PROJECTS

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**Personal Website (JavaScript, Vue.js, Vuetify.js)**

Aug. 2023

I am using Vue.js for a side project to create my personal website. [Link](#)

**Reversi (Python, Pygame)**

Jul. 2023

The game is created for the CS camp courses. We used Pygame as the game's GUI and implemented AI to play against the player using the Mini-max algorithm. [Link](#)

**Real or AI image (Python, TensorFlow)**

Jun. 2023

This is my AI final project to identify the most effective networks in detecting real or AI images. [Link](#)

**NYCU++ (Python, Django, PostgreSQL)**

Jan. 2023

A basic website designed for students to upload and search for course recommendations. [Link](#)

**FPS Game (Unity, C#)**

Jan. 2023

The shooting game is my final project of introduction to computer graphics. [Link](#)

## EXTRACURRICULAR ACTIVITY

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**Manager of Equipment Section in**

**NYCU Computer Science Student Association**

Jun. 2023 - Present