

# Cheng-De Fan

fansam39@gmail.com | <https://cdfan0627.github.io>

## RESEARCH INTERESTS

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Computer vision, Deep Learning, 3D Reconstruction, Generative AI

## EDUCATION

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- **National Yang Ming Chiao Tung University**

*M.S. in Computer Science, co-advised by Yu-Lun Liu and Yu-Chee Tseng*

◦ GPA: 4.10/4.30

*Sep. 2023 - Now*

Hsinchu, Taiwan

- **Tamkang University**

*B.E. in Electrical and Computer Engineering*

◦ GPA: 3.94/4.00, Rank: 1/77

*Sep. 2019 - June. 2023*

New Taipei, Taiwan

## PUBLICATIONS

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1. **Cheng-De Fan**, Chen-Wei Chang, Yi-Ruei Liu, Jie-Ying Lee, Jiun-Long Huang, Yu-Chee Tseng, Yu-Lun Liu. SpectroMotion: Dynamic 3D Reconstruction of Specular Scenes. *CVPR*, 2025
2. Chen-Wei Chang, **Cheng-De Fan**, Chia-Che Chang, Yi-Chen Lo, Yu-Chee Tseng, Jiun-Long Huang, Yu-Lun Liu. GCC: Generative Color Constancy via Diffusing a Color Checker. *CVPR*, 2025

## RESEARCH EXPERIENCE

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- **Comp Photo Lab, NYCU**

*Graduate Research Assistant*

- 3D reconstruction and novel-view synthesis on the dynamic specular object.
- Using diffusion models to inpaint color checkers in images for illumination estimation.

*Jan. 2024 - Now*

Hsinchu, Taiwan

- **PAIR Lab, NYCU**

*Graduate Research Assistant*

- Human tracking and person re-identification (ReID)

*Sep. 2023 - Now*

Hsinchu, Taiwan

## HONORS AND AWARDS

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- **Membership in The Phi Tau Phi Academic Honor Society**

*The Phi Tau Phi Scholastic Honor Society of the Republic of China*

- Achieved academic excellence upon graduation and was elected an honorary member of the society

*June. 2023*

## TECHNICAL SKILLS

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- **Programming Languages:** Python, C/C++

- **Libraries and Tools:** PyTorch, OpenCV, Git