# Cheng-De Fan

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## RESEARCH INTERESTS

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

## EDUCATION

- **National Yang Ming Chiao Tung University** *Sep. 2023 - Now*
  *M.S. in Computer Science, co-advised by Yu-Lun Liu and Yu-Chee Tseng* Hsinchu, Taiwan
  ◦ GPA: 4.10/4.30

- **Tamkang University** *Sep. 2019 - June. 2023*
  *B.E. in Electrical and Computer Engineering* New Taipei, Taiwan
  ◦ GPA: 3.94/4.00, Rank: **1**/77

## PUBLICATIONS

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 (under review)

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 (under review)

## RESEARCH EXPERIENCE

- **Comp Photo Lab, NYCU** *Jan. 2024 - Now*
  *Graduate Research Assistant* Hsinchu, Taiwan
  ◦ 3D reconstruction and novel-view synthesis on the dynamic specular object.
  ◦ Using diffusion models to inpaint color checkers in images for illumination estimation.

- **PAIR Lab, NYCU** *Sep. 2023 - Now*
  *Graduate Research Assistant* Hsinchu, Taiwan
  ◦ Human tracking and person re-identification (ReID)

## HONORS AND AWARDS

- **Membership in The Phi Tau Phi Academic Honor Society** *June. 2023*
  *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

## TECHNICAL SKILLS

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

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