

# 鞠睿阳 (Rui-Yang Ju)

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## 教育经历

### 台湾大学: (理学硕士) 资讯网络与多媒体研究所

台北市, 台湾

- 总均分: **95.23/100**, GPA: **4.03/4.3**
- 实验室: imLab, 指导教授: 洪一平教授

2023.09 – 2025.06

### 淡江大学: (工程学士) 电子与计算机工程系

新北市, 台湾

- 总均分: **94.50/100**, GPA: **4.0/4.0**, 系排名: **1/68**
- 实验室: AMOS Lab., 指导教授: 江正雄教授

2019.09 – 2023.06

## 研究项目及成果

我的主要研究方向包括深度学习、神经网络、计算机视觉和图像处理。此外, 我还参与了一些跨领域的项目, 例如自然语言处理和语音处理。我已完成及正在进行的研究主要集中在以下项目:

三维头部高斯混合形变: 高斯混合形变、高斯喷溅、头部重建、头部动画、头部跟踪

2024 – 2025

- Rui-Yang Ju, “基於 StyleGAN 與高斯混合形變的三維卡通頭像風格化”, 硕士论文, 2025.

儿科手腕创伤 X 光图像中的骨折检测: 医学图像处理、目标检测、YOLO、注意力机制

2023 – 2024

- Rui-Yang Ju, Chun-Tse Chien, Jen-Shiun Chiang, “YOLOv8-ResCBAM: YOLOv8 Based on An Effective Attention Module for Pediatric Wrist Fracture Detection”, *International Conference on Neural Information Processing (ICONIP)*, Auckland, New Zealand, 2024. (CCF C) [arXiv] [GitHub]
- Rui-Yang Ju, Weiming Cai, “Fracture Detection in Pediatric Wrist Trauma X-ray Images Using YOLOv8 Algorithm”, *Scientific Reports*, 2023. (SCI Q1; IF 3.8) [arXiv] [DOI] [GitHub]

彩色退化文件图像二值化: 图像二值化、图像生成、生成对抗网络、离散小波变换

2022 – 2024

- Rui-Yang Ju, Yu-Shian Lin, Yanlin Jin, Chih-Chia Chen, Chun-Tse Chien, Jen-Shiun Chiang, “Three-stage Binarization of Color Document Images Based on Discrete Wavelet Transform and Generative Adversarial Networks”, *Knowledge-Based Systems*, 2024. (SCI Q1; IF 7.2) [arXiv] [DOI] [GitHub]
- Rui-Yang Ju, Yu-Shian Lin, Jen-Shiun Chiang, Chih-Chia Chen, Wei-Han Chen, Chun-Tse Chien, “CCDWT-GAN: Generative Adversarial Networks Based on Color Channel Using Discrete Wavelet Transform for Document Image Binarization”, *Pacific Rim International Conference on Artificial Intelligence (PRICAI)*, Jakarta, Indonesia, 2023. (CCF C) [arXiv] [DOI] [GitHub]

图像超解析度: 图像修复、图像增强、Transformer、残差连接

2021 – 2022

- Rui-Yang Ju\*, Chih-Chia Chen\*, Jen-Shiun Chiang, Yu-Shian Lin, Wei-Han Chen (\*=equal contribution), “Resolution Enhancement Processing on Low Quality Images Using Swin Transformer Based on Interval Dense Connection Strategy”, *Multimedia Tools and Applications (MTA)*, 2023. (SCI Q2; IF 3.0) [arXiv] [DOI] [GitHub]

图像识别及分类: 网络架构设计、卷积神经网络、轻量级网络、残差网络、树莓派

2021 – 2022

- Rui-Yang Ju, Ting-Yu Lin, Jia-Hao Jian, Jen-Shiun Chiang, “Efficient Convolutional Neural Networks on Raspberry Pi for Image Classification”, *Journal of Real-Time Image Processing*, 2023. (IF 2.9) [arXiv] [DOI] [GitHub]

## 奖学金及荣誉

- 台湾大学奖学金, 2023 – 2025, NT\$32,000.
- 台湾大学 (imLab) 奖学金, 2024, NT\$36,000.
- 银牌 (前 4%), Google 通用图像嵌入挑战赛, ECCV 2022 竞赛, 2022.
- 中华国际财经创意交流协会 (SIBIA) 奖学金, 2021, 2022, 2024, US\$900.
- 淡江大学科研奖学金, 2021 – 2022, NT\$48,000.
- 淡江大学学业奖学金 (全系第一名), 2021, 2022, NT\$20,000.