

Yan-Cheng Lin

IMAGE PROCESSING ENGINEER

PROFESSIONAL SUMMARY

Ph.D. student in Biomedical Engineering with hands-on experience in medical imaging, mesh modeling, and AI-driven analysis. Dedicated to bridging engineering and medicine through computational methods. Committed to contributing to patient-specific analysis tools and interdisciplinary research at the interface of medicine and engineering.

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Address:

Tainan City, Taiwan

EDUCATION

Ph.D. in Biomedical Engineering | 2021 – present

National Cheng Kung University

- Relevant Coursework: Medical Imaging, Medical Image Analysis, Introduction to Digital Health and Artificial Intelligence in Medical Applications, Data Science, Deep Learning, Image Processing, Biomedical Database Design, Web Interface Implementation
- GPA: 3.96

Master of Science in Mechanical Engineering | 2020 – 2021

National Central University

- Thesis: Preliminary Architecture for 3D Coronary Artery Reconstruction

Bachelor of Science in Mechanical Engineering | 2016 – 2020

National Central University

RESEARCH EXPERIENCE

Medical Image Reconstruction

- Constructed 3D models of human and mouse brains for CSF flow simulation, involving medical image processing, anatomical knowledge, and mesh editing skills.

Deep Learning Application

- Developed deep learning models for automated semantic segmentation and object detection in prostate imaging, using frameworks such as PyTorch.
- Analyzed disease progression and clinical features to enhance model performance and clinical relevance.

Pre- and Post-Clinical Analysis

- Participated in projects on Alzheimer's disease classification, biomarker tracking, proptosis quantification in Graves' ophthalmopathy, and surgical outcome evaluation for OSA.
- Applied surface parameterization and image annotation to extract biomarkers and estimate tissue volumes for patient condition analysis.

LANGUAGE

Native: Mandarin

Intermediate: English (TOEIC 715)

SKILLS

Programming

Intermediate: Matlab, Python

Basic: HTML/CSS/JavaScript, SQL, Docker

Software Experience

Medical Image Processing Software, Mesh Editing Tools, Numerical Simulation Software, Microsoft Office

Expertise Areas

Medical Imaging, Deep Learning and AI, 3D Mesh Modeling, Surface Parametrization

CAREER OBJECTIVE

To advance biomedical engineering through the integration of medical image processing, mesh modeling, and computational simulation. Aiming to develop patient-specific analysis tools and contribute to translational research in healthcare technology.
