

Chia-Hsiang Kao

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Education

- **National Yang Ming Chiao Tung University** **Taipei, Taiwan**
School of Medicine, *Expected Graduation: Jun. 2022*
- **National Yang Ming Chiao Tung University** **HsinChu, Taiwan**
Department of Applied Mathematics [Exchange program], *Sep. 2020 - Jun. 2021*
Related Coursework: machine learning, reinforcement learning.
Programming Languages: Python.
Frameworks: Pytorch, Tensorflow, Keras.
Skills: medical imaging analysis, computer vision with deep learning, meta-learning.

Experience

- **National Yang Ming Chiao Tung University** **HsinChu, Taiwan**
Research Intern at EVA lab *Sep. 2020 - Sep. 2021*
 - Researched in explainable cross-modality medical image translation, meta-learning in computer vision, self-supervised learning.
- **Taipei Veterans General Hospital** **Taipei, Taiwan**
Clerkship *Oct. 2019 - Sep. 2020*
 - Rotated over 18 medical departments and took primary care over 30 clinical patients.
- **National Yang Ming Chiao Tung University** **Taipei, Taiwan**
Research Intern *Sep. 2017 - Jun. 2020*
 - Preprocessed medical imaging data, including T1-MRI, T2-MRI, DCE-MRI, fMRI, CT and PET.
 - Analyzed image data with deep learning techniques.
- **Data for Social Good Program, DSP Inc** **Taipei, Taiwan**
Leading data analyst *Feb. 2018 - May 2018*
 - Analyzed clinical trauma data for Formosa Association for the Surgery of Trauma, including exploratory data analysis, regression and clustering analysis, and data visualization.
- **Institute of Information Science, Academia Sinica,** **Taipei, Taiwan**
Research Intern *Jun. 2017 - Sep. 2017*
 - Analyzed Taiwan air quality data and performed PM2.5 prediction with deep learning technique in Prof. Chen, Meng Chang Lab.

Publication

- **9th International IEEE/EMBS Conference on Neural Engineering (NER)** **California, United States**
2019
Unravelling the Spatio-Temporal Neurodynamics of Rhythm Encoding-Reproduction Networks by a Novel fMRI Autoencoder.
Chia-Hsiang Kao, Ching-Ju Yang, Li-Kai Cheng, Hsin-Yen Yu, Yong-Sheng Chen, Jen-Chuen Hsieh, & Li-Fen Chen.
- **24th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)** **Strasbourg, France**
2021
Demystifying the Translation from Structural to Functional Medical Images via Representational Similarity.
Chia-Hsiang Kao, Yong-Sheng Chen, Li-Fen Chen, & Wei-Chen Chiu.

Honors and Awards

- **Taiwan Brain Tumor Segmentation Challenge** **Taipei, Taiwan**
Second Prize *2019*
 - Hosted by National Taiwan University Hospital.
 - Built 2D deep learning model ensembles to segment brain tumors from T1-MR images (for gamma knife surgery).
- **International Genetically Engineered Machine Competition** **Boston, Massachusetts, United States**
Gold Medal *2016*
 - Team leader.
 - Led the discussion, resolved disputations, helped negotiate between teams and facilitated effect communication.