Shawn Sun
孫欽鉉
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CONTACT

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LANGUAGE

Mandarin
Native Speaker

English
Advanced (TOEIC 825)

Japanese
Intermediate (JLPT N2)

WORK EXPERIENCE

Job Title: Artificial Intelligence Algorithm Summer Intern
Duration: 2022/7/4~2022/8/31
Company: AIROHA Technology

EDUCATION

Academic Degree: Master
Duration: 2021/8/1~Now
University: National Taiwan University
· Major: Biomedical Electronic and Bioinformatic
· GPA: 4.15/4.30 [Transcript]
· Lab: Biomedical Optical Spectroscopy and Imaging Lab

Academic Degree: Bachelor
Duration: 2017/9/1~2021/6/30
University: National Tsing Hua University
· Major: Biomedical Engineering and Environmental Sciences, NTHU
· GPA: 3.91/4.30 [Transcript]
· Lab: Cellular Physics Lab

SKILLS

Domain Knowledge
· Deep Learning、Computer Vision、Photon Simulation
· Digital Signal Processing、Biomedical Electronic、Bioinformatic

Programming Language
· C/C++, CUDA, Python, MATLAB, LabView

AWARDS

· 2022 Certificate of Full Attendance of Artificial Intelligent Accelerators Short Course [Certificate Link]
· 2021 1st Place of Deep Learning for Computer Vision Thematic Competition
· 2020 Advance Price of Nuclear Science of College of National Tsing Hua University Poster Competition. [Poster Link]

FORTHCOMING PUBLICATIONS: CONFERENCE PAPER

· Hsin-Yuan Hsieh, **Chin-Hsuan Sun**, Yi-Siang Syu, Yin-Fu Chen, Hao-Wei Lee, Kuang Yang, Kung-Bin Sung.
Non-invasive quantification of changes in blood oxygen saturation of the internal jugular vein: theoretical evaluation and in-vivo demonstration. 2023 SPIE Photonic West at San Francisco.

· **Chin-Hsuan Sun**, Kung-Bin Sung. Perturbation Monte Carlo Applicability for Human Neck Model. BISC 2022 Biomedical Imaging and Sensing Conference.

PROJECT DEVELOPEMENT

· Using Monte Carlo based algorithm to detect blood oxygen saturation change of internal jugular vein in vivo. [GITHUB Link]
  - Building human neck numerical model
  - ANN acceleration of simulation
  - Iterative optimal method to solve blood oxygen saturation change

- Using deep learning neuron network to detect human skull fracture region from CT images. [GITHUB Link]
  - Problem provided from the company of Deep01
- National Science and Technology Council (NSTC) fellowship for excellent students based on my written research proposal.
  - Building 3D-based system in vitro to explore the effect of gap junction for astrocytoma in hypoxia region.
- MATLAB write RPG multi-player games[GITHUB Link]
- Make ECG instrument to detect heart beats [Finished Product]
  - Using Fritzing software to do circuit simulation and use electronic components to build amplifier, rectifier, filter and then welding with power supplier on circuit board