



Shawn Sun

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(Sun, Chin-Hsuan)

CONTACT



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LANGUAGE



Mandarin

Native Speaker



English

Advanced (TOEIC 825)



Japanese

Intermediate (JLPT N2)

WORK EXPERIENCE

Job Title: 2nd call of 2023 NII International Internship Program

Duration: 2023/2/23~2023/7/12

Company: National Institute of Informatics in Japan

Job Title: Artificial Intelligence Algorithm Summer Intern

Duration: 2022/7/4~2022/8/31

Company: AIROHA Technology

EDUCATION

Academic Degree: Master

Duration: 2021. Aug. ~ 2023. Oct.

University: National Taiwan University

- Major: Biomedical Electronic and Bioinformatic
- GPA: 3.80/4.30 [\[Transcript\]](#)
- Lab: Biomedical Optical Spectroscopy and Imaging Lab

Academic Degree: Bachelor

Duration: 2017. Sep. ~ 2021. Jun.

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, Latex, Markdown

AWARDS & FUNDINGS

- 2023 Certificate of Completion of the NII International Internship Programs
- 2022 Garmin Scholarship Award
- 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. [\[Poster Link\]](#)
- 2020 College Student Research Scholarship, National Science Council (NSC)

PUBLICATIONS

- **Chin-Hsuan Sun**, Thomas Laurent, Paolo Arcaini and Fuyuki Ishikawa. Alternating between Surrogate Model Construction and Search for Configurations of an Autonomous Delivery System. SANER2024
- 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

- Alternating between Surrogate Model Construction and Search for Configurations of an Autonomous Delivery System
 - Enhancing GPS Position Accuracy through Machine Learning-Based Correction of Gyroscope and Accelerometer Deviations
 - 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
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