



Min-Sheng Wu

Data Scientist



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About me

Min-Sheng Wu is a passionate data scientist at aetherAI, an Asia's leading medical image AI startup. He excels at solving practical problems in computer vision, especially in medical image analysis, image segmentation, and object detection, by designing machine learning/deep learning algorithms. He is keen to realize the cutting-edge technologies to make the world a better place.

Skills

- Python
- PyTorch
- TensorFlow
- C/C++
- ReactJS
- Linux
- Git

Language

- Mandarin (native)
- English (TOEIC 835) [2014]
- Japanese (JLPT N3) [2016]

Education

2018-2020 **Master's Degree** National Taiwan University

- Major: Computer Science
- Advisor: Prof. Winston Hsu
- Grade: **GPA 4.0/4.3**
- Thesis: *Class-agnostic Few-shot Instance Segmentation of Digital Pathological Images* [\[paper\]](#)

2014-2018 **Bachelor's Degree** National Cheng Kong University

- Major: Biomedical Engineering
- Grade: **GPA 4.1/4.3**
- Honor: the Dean's list award for three times

Experience

2021-now **Data Scientist** aetherAI

- Responsible for aetherHema, AI-powered automatic differential counting solution for bone marrow smear.
 - Achieve **94+%** accuracy and **90+%** correlation coefficients with experts' answers.
- Design the deep neural network for cell density map estimation to facilitate the automatic selection for high quality field-of-view.
 - Seamlessly integrate with white blood cell differential counting workflow.
- Build the nuclear segmentation model and phenotyping pipeline for immunofluorescence image analysis.
 - Achieve the Proof Of Concept (POC) for the business collaboration with pharmaceutical company.
- Construct the lung nodule detection model on low-dose CT (LDCT) for health examination.
 - Achieve **80+%** sensitivity for all nodules and **90+%** sensitivity for large nodules (>6mm).

Awards

2018 **IEEE Video and Image Processing (VIP) Cup** [\[news\]](#)

- Win the **3rd prize** in the lung cancer radiomics tumor segmentation challenge.
- Present the work in the 2018 IEEE International Conference on Image Processing (ICIP).
- Design the model architecture and loss function to achieve the state-of-the-art performance.

Publications

MICCAI 2021 ***Stain Mix-up: Unsupervised Domain Generalization for Histopathology Images*** [\[paper\]](#)

Med-NeurIPS 2019 ***Batch-wise Dice Loss: Rethinking the Data Imbalance for Medical Image Segmentation*** [\[paper\]](#)