

Kuan-Hung (Peter) Yeh

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HEALTH DATA SCIENTIST

Data scientist specialized in healthcare and genomics pursuing Master's degree at UCLA Fielding School of Public Health. Three years of hands-on research experience working with domain experts in national laboratories, universities, and hospitals. Turning health data into actionable insights to improve public health.

Programming Languages & Computing Skills: R, SAS, Markdown, Plink, Python, SQL

Research Topics: Survival Analysis, Statistical Genetics, Precision Medicine, Machine Learning.

EDUCATION

UCLA Fielding School of Public Health

Los Angeles, CA

Master of Science in Biostatistics

Jun. 2023 (Expected)

- **Selected Courses:** Regression, Multivariate Analysis, Consulting (Current GPA: 4.0/4.0)

National Taiwan University (NTU)

Taipei, Taiwan

Bachelor of Science in Public Health

Jun. 2020

- **Honor Graduate** (Overall GPA: 3.75/4.0)
- **Awards:** Elite Scholarship, Dr. KP Chen Memorial Scholarship, Dr. Jiang Jian Scholarship

RESEARCH EXPERIENCES

Department of Pathology and Laboratory Medicine, UCLA

Los Angeles, CA

Graduate Student Researcher, Advisor: Prof. Bogdan Pasaniuc

Oct. 2021 – Present

- Improving disease risk prediction model performance by adding genetic risk score
- Developing well-validated model included individual genetic risk score variance for risk prediction

Biostatistics & Bioinformatics lab, NTU

Taipei, Taiwan

Undergraduate Researcher, Advisor: Prof. Tzu-Pin Lu

Jun. 2019 – Feb. 2020

- Constructed the **First Prognostic Model** for Asian Colon Cancer Patients
- Validated the model discrimination and calibration with Harrell's c-index > 0.8
- Provided the robust overall **survival/risk prediction** to facilitate clinical shared decision making
 - **Best Topic Research Poster Award** in Research Symposium, NTU [\[Poster Link\]](#)
 - Published on **Annals of Surgical Oncology 2021** (Impact Factor = 5.344) [\[Paper Link\]](#)

Taichung Veteran General Hospital

Taichung, Taiwan

Summer Research Intern, Advisor: Dr. Tzu-Hung Hsiao

Jun. 2019 – Sep. 2019

- Found **Novel Genetics Locus** on metabolic syndrome using GWAS
- Analyzed and combined phenotype and genotype data to quantify the risk of metabolic syndrome
 - Published and **Oral Presentation** at 2020 IEEE BIBM [\[Video\]](#)

Academia Sinica ("National Academy of Sciences" in TAIWAN)

Taipei, Taiwan

Summer Research Intern, Advisor: Dr. Da-Wei Wang

Jun. 2018 – Sep. 2018

- Applied **Machine Learning & Deep Learning algorithms** on National Health Insurance data
- Classified insurance deductibles into Diagnosis Related Groups (DRGs) on Ophthalmology [\[Github Link\]](#)

HEALTH DATA SCIENCE RELATED PROJECTS

Taiwan Public Health Association

Taipei, Taiwan

Research Assistant, Advisor: Prof. Tzu-Pin Lu & Hsien-Ho Lin

Jul. 2020 – Jan. 2021

- Developed an **Automatic Mask Detection System** during the COVID-19 pandemics
- Purchased by **Taiwan's CDC** to estimate the real-time Ro of COVID-19

2018 TMU x MIT (Sana) HIOT Hackathon

Taipei, Taiwan

1st Prize with \$3,000USD [\[News Link\]](#)

Oct. 2018

- Proposed an **Ultrasound Assisting System** for examination of **Internal Hemorrhage** (Most Commonly Misdiagnosed Conditions in ICU) with a 93% accuracy rate
- A Hackathon organized by **Taipei Medical University** and **Massachusetts Institute of Technology Sana Global Team**, Boston