

# Kuan-Hung (Peter) Yeh

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🏠 peterntuph.github.io | 📄 kuan-hung yeh | 📄 Google Scholar

## 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, Python, SAS, Markdown, SQL, Plink

**Research Topics:** Survival Analysis, Statistical Genetics, Machine Learning, Deep Learning

## EDUCATION

**UCLA Fielding School of Public Health**

Los Angeles, CA

**Master of Science in Biostatistics**

Jun. 2023 (Expected)

- **Selected Courses:** Regression, Multivariate Analysis, Machine Learning, Consulting

**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

- Incorporating uncertainty of genetic risk burden into models of absolute/relative risks
- Designing well-calibrated algorithms included individual PRS variance for disease 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 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