

Kuan-Hung (Peter) Yeh

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

HEALTH DATA SCIENTIST

Data scientist passionate in **Precision Medicine** and **Statistical Genetics** pursuing M.S. in Biostatistics at UCLA. **3+** years of hands-on research experience working with domain experts in national laboratories, universities, and hospitals. Turning data into actionable insights to improve public health & decision making.

Programming Languages & Computing Skills: R (Markdown, Shiny), Python, Linux, SQL, Git/GitHub

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

EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, CA

Master of Science in Biostatistics

Jun. 2023 (Expected)

- **Selected Courses:** Mathematical Statistics, Causal Inference, Machine Learning, etc (Current GPA: **3.9/4.0**)

National Taiwan University (NTU)

Taipei, Taiwan

Bachelor of Science in Public Health

Jun. 2020

- **Honor Graduate** w/ Elite Scholarship & Dr. KP Chen Memorial Scholarship (Overall GPA: **3.75/4.0**)
- **Selected Courses:** Linear Algebra, Survival Analysis, Computational Biology, Epidemiology

RESEARCH EXPERIENCES

Foundation Medicine, Inc. (Affiliate of Roche Group)

Boston, MA

Biostatistician Intern, Advisor: [Dr. Chang Xu](#)

Jun. 2022 – Sep. 2022

- Launched new acceptance criteria for reproducibility in diagnostic assay precision study to maximize statistical power while controlling type I error [\[R Shiny App\]](#)
- Proposed new quality control (QC) criteria for new reagent in **FoundationOne® Liquid CDx** (F1LCDx) to minimize index hopping effect

Department of Pathology and Laboratory Medicine, UCLA

Los Angeles, CA

Graduate Student Researcher, Advisor: [Prof. Bogdan Pasaniuc](#)

May. 2022 – Present

- Constructing a **disease risk prediction model** by combining polygenic score and electronic health record
- Developing a well-validated model included individual polygenic score uncertainty for risk prediction

Biostatistics & Bioinformatics Core 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 [\[Paper Link\]](#)
- 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 [\[Poster Link\]](#)

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 Presented** 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 **Random Forest, SVM, and Neural Network** on National Health Insurance data
- Predicted insurance deductibles on Ophthalmology with 83% accuracy [\[Github Link\]](#)

HEALTH DATA SCIENCE RELATED PROJECTS

2018 TMU x MIT (Sana) HIOT Hackathon

Taipei, Taiwan

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

Oct. 2018

- A Hackathon organized by **Taipei Medical University** and Computer Science and Artificial Intelligence Laboratory (CSAIL), **Massachusetts Institute of Technology**
- Proposed an **Ultrasound Assisting System based on CNN** for real-time auto examination of **Internal Hemorrhage** in ICU with a **93%** accuracy rate