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

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

## EDUCAITON

**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*

- Incorporated uncertainty of genetic risk burden into models of absolute/relative risks
- Provided 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 R0 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