

CHING-JU HSU

PhD candidate



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Houston, TX

Education

Baylor College of Medicine

PhD candidate in Genetics & Genomics
(2021 – Present)

University of Southern California

M.S. in Biochemistry and Molecular Medicine
(2017 – 2019)

China Medical University

B.S. in Medical Laboratory Science and Biotechnology
(2012 – 2016)

Skills

- Cross-Functional Collaboration
- Data Analysis & Interpretation
- Leadership
- Outcome Evaluation
- Problem-Solving
- Project Management
- Research Methodology
- Verbal and Written Communication

Professional Experience

Graduate Student Researcher in Philip Lupo lab

Baylor College of Medicine (2021 – Present)

- Conducting advanced genomic analyses to investigate the relationship between genetic variants and the susceptibility to acute lymphoblastic leukemia in children with Down syndrome.
- Performing outcome evaluations to assess treatment response, toxicity, and survival outcomes based on clinical and demographic factors.
- Use machine learning to investigate the pattern of birth defects and their relationship in cancer susceptibility.

Consultant

Consulting Club for Texas Medical Center (2024 – Present)

- Conducted in-depth client analysis to identify key market opportunities and areas for AI-driven innovation in healthcare industry in Houston.

Specialized Laboratory Technician

University of Southern California (2019 – 2021)

- Managed the High Definition-Single Cell Assay (HD-SCA) platform, facilitating the analysis of circulating tumor cells across various cancer types.
- Executed single-cell genome amplification and library preparation for sequencing, contributing to ongoing cancer research.

Services and Leadership

Director of Agency

Consulting Club at Texas Medical Center (2024 – 2025)

- Oversaw multiple pro bono consulting projects, matching student teams with real-world clients in the biotech, healthcare, and tech sectors.
- Mentored consultants and project leads, guiding them on strategy, client communication, and delivering actionable insights.
- Collected and integrated feedback from consultants, project leads, and clients to continuously improve project execution and client satisfaction.

President of Student Organization

Baylor College of Medicine Taiwanese Student Association (2023 – 2024)

Teaching and Mentoring Experiences

- AP Biology Tutor (2019 – 2020)
- GRE Math Tutor (2019 – 2021)
- Human Genetics Teaching Assistant, Baylor College of Medicine (2022 – 2023)

Honor and Awards

- **Emerging Scientist Grant Award**, Kids Beating Cancer, 07/2025
- **Student and Postdoctoral Travel Award**, Society for Birth Defects Research and Prevention (BDRP), 06/2024
- **CPRIT Predoctoral Training Grant**, Cancer Prevention and Research Institute of Texas, 07/2023
- **Scholarship and Travel Grant**, 28th Summer Institute in Statistical Genetics,