

Julianna C. Hsing, MS

*PhD Student in Epidemiology and Population Health
Stanford University School of Medicine
300 Pasteur Drive, Stanford, CA 94305*

Education

- 2023- **Stanford University** | Stanford CA
PhD Epidemiology & Clinical Research
Co-advisors: Mathew Kiang, ScD, MPH, Michelle Odden, PhD, MS
- 2019-2021 **Stanford University** | Stanford CA
MS Epidemiology & Clinical Research
Co-advisors: Michelle Odden, PhD, MS, C. Jason Wang, MD, PhD
- 2016-2017 **University of Pennsylvania** | Philadelphia PA
Post-baccalaureate
Pre-specialized Health Studies
- 2012-2016 **Princeton University** | Princeton NJ
AB Ecology and Evolutionary Biology
Advisor: Robert Pringle, PhD

Professional Appointments

- 2024- **Stanford University School of Medicine** | National Cancer Institute
T32 Predoctoral Fellow, Department of Epidemiology and Population Health

Relevant Research Experience

- 2024- **Kiang Lab** | **Stanford University** | Department of Epidemiology & Population Health
PhD Student
Leveraging digital phenotyping to assess cardiometabolic health among young adults
Building a digital phenotyping pipeline to process and analyze big data from smartphone sensors (e.g., accelerometer, gps, and screen state) into meaningful and useable digital features for analyses
Early signs of aging among chronically stressed young adults
Using clinical biomarkers of aging and digital phenotyping to assess the social, lifestyle, and daily movement behaviors of chronically stressed young adults
- 2018-2023 **Wang Lab** | **Stanford University** | Department of General Pediatrics
Data Analyst & Graduate Researcher
Childhood resilience in the Taiwan Birth Cohort Study (TBCS)
Studied the longitudinal relationship between poverty and resilience in TBCS (N>20,000) [MS Thesis]
Developed and validated a resilience survey instrument using psychometric property analysis in a population of over 20,000 children [[paper](#)]
A mobile health intervention to reduce the risk of recurrent preterm births
Co-developed a mobile health app, *PretermConnect*, to educate, engage and empower women at high risk for preterm births with personalized health resources that promote their baby's health and wellbeing [[paper](#)]

Understanding cardiometabolic risk factors for non-alcoholic fatty liver disease (NAFLD)

Led and conducted the analysis of the associations between body fat and muscle mass and NAFLD [[paper](#)]

Used deep learning validation to detect NAFLD through ultrasound diagnostic imaging [[paper](#)]

2014-2016 **Pringle Lab | Princeton University** | Department of Ecology and Evolutionary Biology
Undergraduate Researcher

The covariation of diet and the gut microbiome in large African mammals

Conducted DNA extractions and microbiome analyses of fecal samples to characterize the gut microbial diversity and determine the role of diet and gut physiology on the gut microbiota composition [[paper](#)]

Teaching Experience

Fall 2024 **Graduate Teaching Assistant** | EPI 225: Introduction to Epidemiologic and Clinical Research Methods | Stanford University

Selected Research Grant Contributions

2022 **Using mHealth to improve healthcare system performance for preterm infants and mothers**
NIH R01 | Submitted | Principal Investigator: C. Jason Wang, MD, PhD
Role: drafted and edited specific aims and research strategy; conducted power calculations

2015-2016 **The Effect of Gut Physiology and Diet on the Gut Microbiota of Large Mammalian Herbivores**
EEB Bonner Fund and the Office of the Dean of the College | Awarded \$6,425
Role: drafted and edited entire grant; obtained funding for my undergraduate thesis research to study the gut microbiota composition of large mammalian herbivores in sub-Saharan Africa

Community Service & Outreach

2021- **WELL for Life** | Stanford University
Resident Artist
Designed and illustrated a well-being guide (60 pages), infographics, and monthly newsletters

2019- **Menlo Church** | Sanctuary Young Adults Ministry and Weekend Worship Service
Worship Violinist
Lead weekly services for the congregation in a band of 6 other members

2019-2021 **Arbor Cardinal Free Clinic** | Stanford University
Mandarin Interpreter & Patient Health Navigator
Interpret and translate for Mandarin-speaking patients and their families; serve as their patient health navigator; provide health education

Recent Leadership & Extracurricular Activities

2024- **InterVarsity Graduate Christian Fellowship**
Worship Leader
Coordinate and lead the worship team of 5-10 individuals to provide musical worship music for the larger fellowship (20-30 individuals)

2022- **Stanford Medicine Orchestra**
Violin I