

# 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*