

Earnest Wang

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EDUCATION

University of California, Berkeley

Aug 2018 – May 2022

B.A. Public Health & B.A. Economics

- **Relevant Coursework:** Econ 140 (Econometrics), Data 8 (Foundations of Data Science), PH 126 (Health Economics and Policy), PH 150D (Health Policy and Management), PH 142 (Introduction into Probability and Statistics in Public Health), Econ 100B (Macroeconomics), Econ 100A (Microeconomics), Pub Pol 101 (Introduction to Public Policy)

RESEARCH EXPERIENCE

Duke Margolis Center for Health Policy

May 2021 – Jul 2021

Summer Research Intern

Durham, NC

- Managed a literature review and landscape scan to examine the process of technology transfer in the context of federally funded pharmaceutical research & development and the process of commercialization of federally funded research & development.
- Proposed potential pricing mechanisms and intellectual property interventions to lower high drug prices for federally funded drugs.
- Produced weekly reports regarding drug pricing and coverage within health policy to the Biomedical Innovation Workstream with Dr. Mark McClellan.
- Presented my investigation inspecting how rebate walls prevent and limit access to biosimilars in favor of brand-name drugs to the peers in the summer cohort.

Nicholas C. Petris Center

Oct 2020 – Present

Undergraduate Research Assistant

Berkeley, CA

- Conducted literature review and summarized existing literature for various projects regarding private equity acquisitions of healthcare firms, cross-market mergers on healthcare prices and quality, pharmaceutical drug development, and hospital affiliations in different systems across California.
- Examined the implications of private equity acquisitions on health outcomes and quality of care in the US by analyzing data in private equity-owned home health firms and nursing homes before and during the COVID-19 pandemic.
- Authored a report on private equity acquisitions in home health and hospice industry, such as compiling data, measuring market size, searching for size of private equity deals, creating timelines, as part of a larger report on private equity acquisitions in healthcare.
- Aggregated and visualized data on mergers and acquisitions (M&A activity) to understand the home health market in Texas.
- Produced an additional report on the healthcare system of the state of Indiana, focusing primarily on the health insurance market.

Memory and Aging Center, University of California, San Francisco

Oct 2019 – Present

Undergraduate Research Assistant

San Francisco, CA

- Analyzed the enlargement of perivascular spaces (ePVS) on patient carrier of specific genes which increase susceptibility of developing frontotemporal dementia (FTD) as part of a joint-neuroimaging project.
- Quantified imaging correlates on T-2 weighted MRI scans of the brain to identify the presence of ePVS.
- Validated automated models correlating white and grey matter and cerebrospinal fluid against intensities of different maps and identify high correlation of cerebrospinal fluid within those spaces.
- Investigated the impact of time of day on the functioning of the glymphatic system and its impact on neuroimaging measures from a sample of patients with a clinical diagnostic rating (CDR) of 0.
- Created masks identifying ePVS and giant perforated vessels in patients with Cerebral Autosomal Dominant Arteriopathy with Sub-cortical Infarcts and Leukoencephalopathy (CADASIL).

LEADERSHIP & VOLUNTEER EXPERIENCE

University Health Services, Tang Center

Feb 2021 – Apr 2021

Vaccine Clinic Volunteer

Berkeley, CA

- Facilitated COVID-19 vaccination line to increase efficiency in the campus vaccine clinic.
- Managed electronic medical records of patients during their check-ins and informed patients of the Moderna and Pfizer vaccines.

Introduction to Cardiology | PB HLTH 198

Jan 2020 – Present

Lead Student Facilitator

Berkeley, CA

- Designed and consistently executed lectures, discussions, quizzes, and projects for students in a semester long course.
- Mentored and advised enrolled students through hosting weekly office hours aimed to facilitate student interaction and mentorship.
- Educated students on the anatomy and pathophysiology of the heart and cardiovascular system, interventions, and procedures such as CPR, and the instrumental readings of EKG and echocardiogram.

American Medical Student Association

Sep 2018 – May 2020

Public Health Committee Member

Berkeley, CA

- Planned Public Health Day (4/5/19) which included local sponsors and organizations around Berkeley that promote healthy eating and mental health, along with organizing several other events to raise awareness around various public health issues on campus.
- Presented and discussed multiple public health issues within the local community and globally to my committee peers.

SKILLS

Programming Languages: R, Python

Technical Tools: Microsoft Office, Excel, Word, Adobe, FSLeyes, Google Docs, Slides, Sheets, ArcGIS