Annabel Xulin Tan

PHD STUDENT IN EPIDEMIOLOGY AT STANFORD · BIOSTATISTICS, EPIDEMIOLOGY, CAUSAL INFERENCE

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Education

Stanford University Palo Alto, California

PhD in Epidemiology and Clinical Research

Sept 2020 - present

• Near-peer mentor for Advancing Health Equity and Diversity (AHEaD) scholars for Summer 2021 - 2022.

Yale School of Public Health

New Haven, CT

MASTER OF PUBLIC HEALTH (MPH)

Aug 2013 - May 2015

- Global Health Field Leadership Award (\$5000 award)
- Teaching Assistant in 2 classes of over 30 students: Introduction to Bioengineering, Global Health

Imperial College London

London, United Kingdom

MASTER OF ENGINEERING (M.ENG) IN BIOMEDICAL ENGINEERING

Oct 2006 - Oct 2010

- **Upper Second Class Honors**. Top 10% of graduating class.
- Visiting Scholar at University of California, San Diego from Aug 2009 Jun 2010. GPA 3.76/4.0

Work Experience _____

Stanford University

Palo Alto, CA

GRADUATE RESEARCH ASSISTANT

Sep 2020 - present

- <u>Dissertation project:</u> Characterizing Environmental Determinants of Cardiovascular Health Using Diverse Data Streams, using Dept of Health Care Access and Information (California), National Weather Service (NWS) datasets with >2 million observations.
- Developed an iPhone app (Cardinal Lifespace) to characterize a novel measure of how we live called lifespace, deployed among 200 participants. App is available in the iOS App Store.

EPIDEMIOLOGY RESEARCH ASSOCIATE

Dec 2018 - Sep 2020

- Led projects in Covid-19 and cardiovascular health using large datasets resulting in first authorship of two papers in JAMA Network Open and Circulation respectively (citations below).(citations below)
- Established a working data infrastructure for the Odden lab
- Facilitated strategic collaborations between the Odden Lab and partner academic institutions that resulted in three NIH-supported R01 grants worth over \$2 million USD

Yale Global Health Leadership Institute

New Haven, CT

PROGRAM MANAGER

Jun 2015 - Jun 2018

- Oversaw 3 executive leadership education program efforts between Yale and partners in the National Health Service (UK), and Ministries of Health (China, Ethiopia); achieved "exceeded expectations" in end of program survey 100% every time
- Managed complex deliverables including a time sensitive program impact evaluation to measure efficacy of district level health management across 226 health centers in Ethiopia.
- Led data collection of large qualitative dataset (150 interviews) and statistical analyses and for 2 longitudinal health outcomes research projects using R and SAS, resulting in 3 highly cited papers in top tier journals

Duke-NUS Medical School

Singapore

RESEARCH ASSISTANT

Jan 2011 - Jun 2013

• Assisted in managing neuroscience lab operations, ran independent experiments and supported data analysis, leading to 1 peer reviewed publication in journal.

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Honors & Awards

Yale Global Health Field Award, Yale University
 Provost Honors, University of California, San Diego
 Associate, City and Guilds of London Institute

New Haven, CT
San Diego, CA
London, UK

Skills

Programming Fluent: R, Stata, Python, SQL, Matlab Intermediate: SAS, HTML

Machine Learning Tools OpenCV, TensorFlow, PyTorch, Pandas, Scikit Learn

General Tools Git, ET_FX

Spoken Languages *Fluent*: English. *Intermediate*: Malay, Chinese

Data Science Class Projects _

CS 229 Machine Learning

AUTHOR

Palo Alto, CA Fall 2022

- Project title: Sample Size and Heterogeneity Trade offs in Cohort Selection
- Developed an algorithm to train multiple classification models to identify patients with breast cancer and compare predictive performance between logistic regression, support vector machine and random forest.

Selected Publications

- Chang, A., **Tan, AX**, K. Nadeau, and M. Odden (2022). "Aging Hearts in a Hotter, More Turbulent World: The Impacts of Climate Change on the Cardiovascular Health of Older Adults." In: *Current Cardiology Reports*.
- **Tan, A.X.**, J. A. Hinman, H. S. Abdel Magid, L. M. Nelson, and M. C. Odden (May 2021). "Association Between Income Inequality and County-Level COVID-19 Cases and Deaths in the US". In: *JAMA Network Open* 4.5, e218799–e218799. DOI: 10.1001/jamanetworkopen.2021.8799.
- **Tan, A.X.**, S. J. Shah, J. L. Sanders, B. M. Psaty, C. Wu, J. M. Gardin, C. A. Peralta, A. B. Newman, and M. C. Odden (2021). "Association Between Myocardial Strain and Frailty in CHS". In: *Circulation: Cardiovascular Imaging* 14.5, e012116.
- Taylor, L. A., **Tan, A.X.**, C. E. Coyle, C. Ndumele, E. Rogan, M. Canavan, L. A. Curry, and E. H. Bradley (Aug. 2016). "Leveraging the Social Determinants of Health: What Works?" In: *PLOS ONE* 11.8, pp. 1–20. DOI: 10.1371/journal.pone.0160217.
- **Tan, A.X.**, S. Kapiga, K. Khoshnood, and R. D. Bruce (Dec. 2015). "Epidemiology of Drug Use and HIV-Related Risk Behaviors among People Who Inject Drugs in Mwanza, Tanzania". In: *PLOS ONE* 10.12, pp. 1–15. DOI: 10.1371/journal.pone.0145578.

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