

Christine Tedijanto Wen

INFECTIOUS DISEASE EPIDEMIOLOGIST

✉ christine.tedijanto@ucsf.edu | 📧 ctedijanto | 🌐 ctedijanto

Academic Training

Proctor Foundation, University of California San Francisco

San Francisco, CA

POSTDOCTORAL SCHOLAR

Sep. 2020 - current

- Key research areas: epidemiology, serological surveillance and geostatistical modeling of trachoma elimination
- Mentored by Dr. Benjamin Arnold

Harvard University

Cambridge, MA

PH.D. IN POPULATION HEALTH SCIENCES, INFECTIOUS DISEASE EPIDEMIOLOGY

Sep. 2016 - Mar. 2021

- Key research areas: dynamics of antibiotic consumption and antibiotic resistance; modeling and applied epidemiology of COVID-19
- Dissertation: "Exploring bystander selection for antibiotic resistance"
- Committee: Drs. Marc Lipsitch (chair), William Hanage, Yonatan Grad, Jessica Young

University of Pennsylvania

Philadelphia, PA

ROY AND DIANA VAGELOS PROGRAM IN LIFE SCIENCES AND MANAGEMENT

Sep. 2010 - Aug. 2014

- Wharton School: B.S. in Economics (Concentration: Operations and Information Management)
- College of Arts and Sciences: B.A. in Biology (Concentration: Computational Biology)
- Honors: *summa cum laude*

Work Experience

Partners in Health

Remote

EPIDEMIOLOGY CONSULTANT

Oct. 2021 - current

- Provided expert consultation on emerging epidemiology and public health dimensions of COVID-19 to guide development of briefing materials for community partners throughout the United States.

HaSET Research Program, Harvard T.H. Chan School of Public Health (HSPH)

Amhara, Ethiopia

RESEARCH ASSISTANT WITH DR. GRACE CHAN

Jun. 2019 - Aug. 2019

- Contributed to the design and implementation of a field study assessing carriage and transmission of antimicrobial-resistant bacteria among pregnant women and their children.

Stanford University

Stanford, CA

RESEARCH ASSISTANT WITH DR. JASON ANDREWS

Apr. 2016 - Aug. 2016

- Conducted systematic review and developed mathematical model to characterize seasonal patterns of tuberculosis.

World Health Organization, Western Pacific Regional Office (WPRO)

Manila, Philippines

INTERN, ESSENTIAL MEDICINES & HEPATITIS UNITS

Sep. 2015 - Dec. 2015

- Collaborated with WHO country offices and ministries of health to analyze current regulatory, patent, and pricing landscapes in the 37 member states of the region.
- Conducted survey to assess hepatitis clinical coverage and capacity across the region.
- Contributed to background documents for Strategic Technical Advisory Committee (STAC) for Hepatitis.

ZS Associates

Boston, MA

BUSINESS ANALYST

Aug. 2014 - Sep. 2015

- Modeled sales forecasts for potential customers to select optimal target market for upcoming \$200M product launch.
- Analyzed consumer marketing data to drive campaign strategy, resulting in cost savings of 33% and improved sales targeting.
- Advised field operations team of \$63B company on optimal structure and deployment of 265-person sales force.
- Developed framework for ZS pro bono practice and pilot project with two colleagues.

Publications

Bekele, C, Bekele, D, Hunegnaw, B, Van Wickle, K, Ashenafi, F, Korte, M, **Tedijanto, C**, Tadesse, L, Chan, G. Impact of COVID-19 pandemic on utilization of facility-based essential maternal and child health services in North Shewa Zone, Ethiopia. [In review].

Tedijanto, C, Aragie, S, Tadesse, Z, Haile, M, Zeru, T, Nash, SD, Wittberg, DM, Gwyn, S, Martin, DL, Sturrock, HJW, et al. Predicting future community-level ocular *Chlamydia trachomatis* infection prevalence using serological, clinical, molecular and geospatial data. [In review].

Blumberg, S, Prada, JM, **Tedijanto, C**, Deiner, MS, Godwin, WW, Emerson, PM, Hooper, PJ, Borlase, Anna, Hollingsworth, TD, Oldenburg, CE, et al. Forecasting trachoma control and identifying transmission-hotspots. *Clinical Infectious Diseases* 72.Supplement3 (2021): S134-9.

Tedijanto, C, Nevers, M, Samore, MH, Lipsitch, M. Antibiotic use and presumptive pathogens in the Veterans Affairs Healthcare System. *Clinical Infectious Diseases* (2021): ciab170.

Gostic, KM, McGough, L, Baskerville, E, Abbott, S, Joshi, K, **Tedijanto, C**, Kahn, R, Niehus, R, Hay, J, de Salazar, P, et al. Practical considerations for measuring the effective reproductive number, R_t . *PLoS Computational Biology* 16.12 (2020): e1008409.

Kissler, SM, **Tedijanto, C**, Goldstein, E, Grad, YH, Lipsitch, M. Projecting the transmission dynamics of SARS-CoV-2 through the post-pandemic period. *Science* 368.6493 (2020): 860-868.

Tedijanto, C, Grad, YH, Lipsitch, M. Potential impact of outpatient stewardship interventions on antibiotic exposures of common bacterial pathogens. *eLife* 9 (2020): e52307.

McAdams, D, Waldetoft, KW, **Tedijanto, C**, Lipsitch, M, and Brown, SP. Resistance diagnostics as a public health tool to combat antibiotic resistance: a model-based evaluation. *PLoS biology* 17.5 (2019): e3000250.

Tedijanto, C, Olesen, S, Grad, YH, Lipsitch, M. Estimating the proportion of bystander selection for antibiotic resistance among potentially pathogenic bacterial flora. *Proceedings of the National Academy of Sciences* 115.51 (2018): E11988-E11995.

Tedijanto, C, Hermans, S, Cobelens, F, Wood, R, Andrews, JR. Drivers of seasonal variation in tuberculosis incidence: insights from a systematic review and mathematical model. *Epidemiology* 29.6 (2018): 857-866.

Lewnard, JA, **Tedijanto, C**, Cowling, BJ, Lipsitch, M. Measurement of vaccine direct effects under the test-negative design. *American Journal of Epidemiology* 187.12 (2018): 2686-2697.

Presentations

The Carter Center Annual Review

ORAL PRESENTER

- Title: "Potential impact of outpatient stewardship interventions on antibiotic exposures of bacterial pathogens"

Atlanta, GA

Mar. 2022 (scheduled)

American Society of Tropical Medicine and Hygiene (ASTMH) Annual Meeting

ORAL PRESENTER

- Title: "Predicting future community-level ocular *Chlamydia trachomatis* infection prevalence using serological, clinical, molecular and geospatial data"

Remote

Nov. 2021

Epidemics7

POSTER PRESENTER

- Title: "Potential impact of outpatient stewardship interventions on antibiotic exposures of bacterial pathogens"

Charleston, SC

Dec. 2019

Kolokotronis Symposium

PANEL SPEAKER

- Title: "Bugs and drugs: How (and how much) does changing antibiotic use change antibiotic resistance? – Why is it difficult?"

Boston, MA

Nov. 2019

Models of Infectious Disease Agent Study (MIDAS) Network Meeting

POSTER PRESENTER

- Title: "Potential impact of outpatient stewardship interventions on antibiotic exposures of pathogenic bacteria"

Bethesda, MD

Apr. 2019

International Conference on Emerging Infectious Diseases (ICEID)

PANEL SPEAKER

- Title: "Estimating the magnitude and effects of bystander selection for antibiotic resistance in the United States"

Atlanta, GA

Aug. 2018

Models of Infectious Disease Agent Study (MIDAS) Network Meeting

ORAL PRESENTER

- Title: "Estimating the proportion of bystander selection for antibiotic resistance in the US"

Bethesda, MD

Apr. 2018

Epidemics6

ORAL PRESENTER

- Title: "Estimating the proportion of bystander selection for antibiotic resistance in the US"

Sitges, Spain

Nov. 2017

Awards

- 2019 **Uwe Brinkmann Memorial Travel Award**
- 2019 **Michael von Clemm Traveling Fellowship**
- 2019 **Rose Traveling Fellowship**

Teaching

- 2019 **Teaching Fellow**, RDS285: Decision Analysis Methods in Public Health and Medicine
- 2017-2018 **Teaching Fellow**, ID201: Core Principles of Biostatistics and Epidemiology for Public Health
- 2017-2020 **Tutor**, PHS2000: Quantitative Research Methods in Population Health Sciences

Media

This is the future of the pandemic. *New York Times* (May 2020): Print.

What might social distancing look like after lockdown? *BBC Newsday* (May 2020): Video.

The World Tonight: social distancing and measures to curb the spread of COVID-19. *BBC Radio 4* (Apr 2020): Radio.

Interview with Anderson Cooper: social distancing through 2022 for COVID-19. *CNN* (Apr 2020): Television.

References

Available upon request.