

Ada Kwan

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Citizenship: United States

EDUCATION

- 2020 **PhD, Health Economics, Health Policy**
University of California at Berkeley – Berkeley, CA, USA
- Dissertation: “Can we improve quality of care in private health sectors? Evidence from a randomized field experiment in Kenya”
 - Committee: Paul Gertler (chair), Stefano Bertozzi, Jonathan Kolstad, Aprajit Mahajan
- 2009 **MHS, Health Systems, International Health**
Johns Hopkins Bloomberg School of Public Health – Baltimore, MD, USA
- Thesis: “Costing a multi-country health results-based financing program for maternal and child health services: An economic assessment integrated into an impact evaluation”
- 2006 **BS, Neuroscience**
University of Michigan – Ann Arbor, MI, USA

POSITIONS

- 2020-pres. **Postdoctoral Scholar**
Department of Medicine, University of California at San Francisco, USA
- 2020-2022 **Co-Director, CalPROTECT for the California Prison Health Care Receivership Office**
30+ person UCSF-UC Berkeley initiative on data-driven COVID-19 response in California prisons
Department of Medicine, University of California, San Francisco, USA
- 2014-2020 **Project Director, Quality of Care Surveillance in urban India and South Africa**
Research Institute of the McGill University Health Centre, McGill University, Canada
& World Bank Development Economics Research Group, USA
- 2009-2020 **Independent Research & Policy Consultant**
Abt Associates; Educate!; Grameen Foundation; Innovations for Poverty Action in Uganda;
International Development Research Centre; Johnson & Johnson; mHealth Alliance and Health
Enabled; Millennium Villages Project at Columbia University; Pfizer, Inc.; Rockefeller Foundation;
Rosalynn Carter Institute for Caregiving; Sesame Workshop; United Nations Commission on Life-
Saving Commodities for Women and Children; United Nations Foundation
- 2014-2018 **Consultant, Quality of Care Research Program**
Development Economics Research Group, World Bank Group, USA
- 2009-2015 **Researcher**
Division of Health Economics, Mexico National Institute of Public Health, Mexico
& The Consortium for Research on HIV/AIDS/TB (CISIDAT), Mexico

PUBLICATIONS

Peer-reviewed publications

1. Gertler P and **Kwan A**. The essential role of altruism in medical decision making. NBER Working Paper No. w32151, 2024. Available at SSRN: <https://ssrn.com/abstract=4731060> or <http://dx.doi.org/10.2139/ssrn.4731060>.
2. Hoover C, Estus E, **Kwan A**, Raymond K, Sreedharan T, Leon T, Jain S, Shete P. Evaluation of an equity-focused vaccine allocation strategy on vaccination rates and COVID-19 outcomes in California, 2021. Accepted at Health Affairs, 2024.
3. Leach BC, Ahalt C, Williams B, **Kwan AT**. Stress and anxiety among correctional health care professionals in a US state prison system during COVID-19. *Journal of Correctional Health Care*. 2024 Jan 4.
4. Sklar R, Noth E, **Kwan A**, Sears D, Bertozzi S. Ventilation conditions during COVID-19 outbreaks in six California state carceral institutions. *PLOS One*. 2023 Nov 7;18(11):e0293533.
5. Boone CE, Gertler PJ, Barasa GM, Gruber J, **Kwan A**. Can a private sector engagement intervention that prioritizes pro-poor strategies improve healthcare access and quality? A randomized field experiment in Kenya. *Health Policy & Planning*. 2023:czad076.
6. Daniels B, Boffa J, **Kwan A**, Moyo S. Deception and informed consent in studies with incognito simulated standardized patients: Empirical experiences and a case study from South Africa. *Research Ethics*. 2023; 19(3):17470161231174734.
7. Svadzian A, Daniels B, Sulis G, Das J, Daftary A, **Kwan A**, Das V, Das R, Pai M. Use of standardized patients to assess tuberculosis case management by pharmacies in Patna, India: A repeat, cross-sectional study. *PLOS Global Public Health*. 2023 May 26;3(5):e0001898.
8. Svadzian A, Daniels B, Sulis G, Das J, Daftary A, **Kwan A**, Das V, Das R, Pai M. Do private providers initiate anti-tuberculosis therapy on the basis of chest radiographs? A standardized patient study in urban India. *Lancet Regional Health – Southeast Asia*. 2023.
9. Tan ST, **Kwan AT**, Rodríguez-Barraquer I, Singer BJ, Park HJ, Lewnard JA, Sears D, Lo NC. Infectiousness of SARS-CoV-2 breakthrough infections and reinfections during the Omicron wave. *Nature Medicine*. 2023:1-8.
10. Daniels B, Shah D, **Kwan A**, Das RK, Das V, Puri V, Tipre P, Waghmare U, Gomare M, Keskar P, Das J, Pai M. Tuberculosis diagnosis and management in public and private health care sectors in Mumbai, India: A cross-sectional standardized patients study. *BMJ Global Health*. 2022;7:e009657.
11. **Kwan A**, Garcia-Grossman I, Sears D, Bertozzi SM, Williams B. The impact of COVID-19 on the health of incarcerated older adults in California state prisons. *Health Affairs*. 2022 Aug; 41(8):1191-1201.
12. Blumberg S, Lu P, **Kwan AT**, Hoover CM, Lloyd-Smith JO, Sears D, Bertozzi SM, Worden L. Mitigating outbreaks in congregate settings by decreasing the size of the susceptible population. *PLOS Computational Biology*. 2022 Jul; 18(7):e1010308.

13. Duarte C, Cameron DB, **Kwan AT**, Bertozzi SM, Williams BA, McCoy SI. COVID-19 outbreak in a state prison: A case study on the implementation of key public health recommendations for containment and prevention. *BMC Public Health*. 2022; 22(1):1-12.
14. **Kwan A**, Sklar R, Cameron DB, Schell R, Bertozzi SM, McCoy SI, Williams B, Sears DA. Respiratory pandemic preparedness learnings from the June 2020 COVID-19 Outbreak at San Quentin California State Prison. *International Journal of Prisoner Health*. 2022 Jun 10.
15. **Kwan A**. Implementing quality of care measures: Lessons from a standardized patient study in seven provinces of China. *AJPH*. 2022 Jun; 112(6):808-20.
16. Das V, Daniels B, **Kwan A**, Saria V, Das R, Pai M, Das J. Simulated patients and their reality: An inquiry into theory and method. *Social Science & Medicine*. 2022 May 1; 300:114571.
17. **Kwan A**, Boone CE, Sulis G, Gertler PJ. Do private providers give patients what they demand, even if it is inappropriate? A randomized study utilizing unannounced standardized patients in Kenya. *BMJ Open*. 2022 Mar 1; 12(3):e058746.
18. Rosapep LA, Faye S, Johns B, Olusola-Faleyeh B, Baruwa EM, Sorum MK, Nwagagbo F, Adamu AA, **Kwan A**, Obanubi C, Atobatele AO. Tuberculosis care quality in urban Nigeria: A cross-sectional study of adherence to screening and treatment initiation guidelines in multi-cadre networks of private health service providers. *PLOS Global Public Health*. 2022 Jan 6; 2(1):e0000150.
19. Salomon A, Boffa J, Moyo S, Chikovore J, Sulis G, Daniels B, **Kwan A**, Mkhombo T, Wu S, Pai M, Daftary A. Prescribing practices for presumptive tuberculosis among private general practitioners in South Africa: A cross-sectional, standardized patient study. *BMJ Global Health*. 2022;7(1):e007456.
20. Barnert ES, **Kwan AT**, Williams B. Ten urgent priorities based on lessons learned from over a half million known COVID-19 cases in U.S. prisons. *AJPH*. 2021 Jun;111(6):1099-105.
21. Boffa J, Moyo S, Chikovore J, Salomon A, Daniels B, **Kwan AT**, Pai M, Daftary A. Quality of care for tuberculosis and HIV in South Africa's private health sector: A cross-sectional, standardised patient study. *BMJ Global Health*, 2021 May; 6(5):e005250.
22. Sulis G, Daniels D, **Kwan A**, Gandra S, Daftary A, Das J, Pai M. Antibiotic overuse in the primary health care setting: A secondary data analysis of standardized patient studies from India, China, and Kenya. *BMJ Global Health*. 2020 Sep;5:e003393.
23. **Kwan A**, Daniels B, Bergkvist S, Das V, Pai M, Das J. Use of standardised patients for healthcare quality research in low-and middle-income countries. *BMJ Global Health*. 2019 Sep 1;4(5):e001669.
 - Companion piece (online supplement), 250+ page toolkit (tiny.cc/sp_manual): **Kwan A**, Bergkvist S, Daniels B with Das J, Das V, Pai M. (2018). Using standardized patients to measure health care quality: A manual and toolkit for projects in low- and middle-income countries.
24. King JJ, Das J, **Kwan A**, Daniels B, Powell-Jackson T, Makungu C, Goodman C. How to do (or not to do)... using the standardized patient method to measure clinical quality of care in LMIC health facilities. *Health policy and Planning*. 2019 Aug 19.

25. Daniels B, **Kwan A**, Pai M, Das J. Lessons on the quality of tuberculosis diagnosis from standardized patients in China, India, Kenya, and South Africa. *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*. 2019 Jun 7:100109.
26. **Kwan A**, Daniels B, Satyanarayana S, Subbaraman R, Das RK, Das V, Das J, Pai M. Use of standardised patients to assess gender differences in quality of tuberculosis care in urban India: a two-city, cross-sectional study. *Lancet Global Health*. 2019 Mar 27.
27. **Kwan A**, Daniels B, Saria V, Satyanarayana S, Subbaraman R, McDowell A, Bergkvist S, Das RK, Das V, Das J, Pai M. Variations in the quality of tuberculosis care in urban India: A cross-sectional, standardized patient study in two cities. *PLOS Medicine*. 2018, 15(11):e1002653.
28. Bautista-Arredondo S, Sosa-Rubí S, Opuni M, Contreras-Loya D, La Hera-Fuentes G, **Kwan A**, et al. Influence of supply-side factors on voluntary medical male circumcision costs in Kenya, Rwanda, South Africa, and Zambia. *PLOS One*, 2018,13(9):e0203121.
29. Bautista-Arredondo S, La Hera-Fuentes G, Contreras-Loya D, **Kwan A**, Van Buren SJ, Amanze OO, Atobatele A, Adeyemi A, Abatta E, Ogungbemi KM, Sosa-Rubí S. Efficiency of HIV services in Nigeria: Determinants of unit cost variation of HIV counseling and testing and prevention of mother-to-child transmission interventions. *PLOS One*, 2018, 13(9):e0201706.
30. Satyanarayana S, **Kwan A**, Daniels B, Subbaraman R, McDowell A, Bergkvist S, Das RK, Das V, Das J, Pai M. Use of standardised patients to assess antibiotic dispensing for tuberculosis by pharmacies in urban India: a cross-sectional study. *Lancet Infectious Diseases*. 2016 Nov 1;16(11):1261-8.
31. Bautista-Arredondo S, Sosa-Rubí SG, Opuni M, Contreras-Loya D, **Kwan A**, Chaumont C, Chompolola A, Condo J, Galárraga O, Martinson N, Masiye F. Costs along the HTC and PMTCT service cascades: findings from Kenya, Rwanda, South Africa, and Zambia. *AIDS*. 2016 Jul 29.
32. Das J, **Kwan A**, Daniels B, Satyanarayana S, Subbaraman R, Bergkvist S, Das RK, Das V, Pai M. Use of standardised patients to assess quality of tuberculosis care: a pilot, cross-sectional study. *Lancet Infectious Diseases*. 2015 Nov 30;15(11):1305-13.
33. de Walque D, Gertler PJ, Bautista-Arredondo S, **Kwan A**, Vermeersch C, Bizimana JdD, Binagwaho A, Condo J. Using provider performance incentives to increase HIV testing and counseling services in Rwanda. *Journal of Health Economics*. 2015, 40:1-9.
34. Bautista-Arredondo S, Sosa-Rubí S, Opuni M, **Kwan A**, Chaumont C, et al. Assessing cost and technical efficiency of HIV prevention interventions in sub-Saharan Africa: the ORPHEA study design and methods. *BMC Health Services Research*. 2014, 14(1):599.
35. Crabtree-Ramírez B, Caro-Vega Y, Sosa-Rubí, **Kwan A**, Sierra-Madero J, Ortega-Pérez R, et al. Acceptability and willingness to receive short message service (SMS) regarding HIV health care information in a HIV adult population in Mexico City. *J Int AIDS Soc*. 2014, 17(2Suppl 1):19180,P1.
36. Mechael P, **Kwan A**, Struble S. Using mobile phones on the job. *Student BMJ*; 20:e777.
37. *Journal of Biomolecular Technique's Outstanding Article of the Year:*
Gross V, Carlson G, **Kwan AT**, Smejkal G, Freeman E, Ivanov AR, and Lazarev A. Tissue fractionation by

hydrostatic pressure cycling: the unified sample preparation technique for systems biology studies. *J. Biomolec Tech.* 2008, 19(3): 189-199.

Books & book chapters

38. Michael P, **Kwan A**, Hanzel A, Hedquist C. (2014). Ch. 17 Reshaping Health in a World of Mobile Phones. In: M. Rosenmüller, D. Whitehouse & P. Wilson (Eds.), *Managing eHealth: From Vision to Reality* (pp. 215-229). Palgrave Macmillan, London; 2014. ISBN: 978-1-137-37942-9; ISBN-10: 1-137-37942-1.
39. Michael P, **Kwan A**, Kern D. Chapter 9 Global Mobile. In: P. A. Bruck & M. Rao (Eds.), *Global Mobile: Applications and innovations for the Worldwide Mobile Ecosystem*. New Jersey: Information Today, Inc.; 2013. ISBN-10: 1573874620; ISBN-13 978-1573874625.
40. **Kwan A**, Michael P, Kaonga N. State of Behavior Change Initiatives and How Mobile Phones are Transforming It. In: J. Donner & P. Michael (Eds.), *mHealth in Practice: Mobile technology for health promotion in the developing world* (pp 15-31). Bloomsbury Academic, London; 2012. ISBN 978-1-78093-229-3 (paperback); 978-1-78093-280-4 (ebook).

WORKING PAPERS & WORKS IN PROGRESS (SELECTED)

41. **Kwan AT**, Vargo J, Kurtz C, Panditrao M, Hoover CM, León TM, Rocha D, Wheeler W, Jain S, Pan ES, Shete PB. Integrating health equity into policy: A framework for adding COVID-19 disparities in California through equity-focused implementation, monitoring, and evaluation. R&R at AJPH.
42. Contreras-Loya D*, Gertler PJ*, **Kwan A***. Management and altruism in health care: Results from a field experiment in Kenya. (*All authors contributed equally.) Working paper.
43. **Kwan A**, Gertler PJ. What does money buy in the private health sector? A standardized patient experiment on service affordability in Kenya. Working paper.

POLICY PAPERS (SELECTED)

1. **Kwan A**, Sears D, Bertozzi SM, Williams B, editors. California state prisons during the COVID-19 pandemic: A report by the CalPROTECT project. May 2022.
 - For a complete listing of this 400-page report and its 12 supplemental documents, please visit the UCSF Criminal Justice & Health Program Reports section at: <https://cchcs.ca.gov/reports>.
2. **Kwan A**. Leveraging technologies for a military caregiving program in the United States. Commissioned by Johnson & Johnson and the Rosalynn Carter Institute for Caregiving; 2016.
3. **Kwan A**. mHealth transferring the burden of caregivers to mobile technology. Commissioned by Pfizer, Inc. & the United Nations Foundation; 2014.
4. **Kwan A**. mHealth opportunities for non-communicable diseases among the elderly. Commissioned by Pfizer, Inc. & the United Nations Foundation; 2014.
5. **Kwan A**. mHealth solutions for improving mental health and illnesses in the aging process. Commissioned by Pfizer, Inc. & the United Nations Foundation; 2014.
6. **Kwan A**. mHealth and aging: Policy white paper series. Commissioned by Pfizer, Inc. & the United Nations Foundation; 2013.

7. **Kwan A.** Getting healthier around the world: Information and communication technologies for child health and development. Policy white paper commissioned by Sesame Workshop & mHealth Alliance at the United Nations Foundation; 2012.
8. **Kwan A.** Using mobile technologies for healthier aging. Pfizer & the mHealth Alliance; 2013.
9. Bautista-Arredondo S and **Kwan A.** A general economic assessment manual for maternal and child health services. Cuernavaca, México: Center for Evaluation Research and Surveys, National Institute of Public Health; 2010.

AWARDS

09/2019-08/2020	University of California at Berkeley Graduate Division UC Dissertation Year Fellowship (US\$42,928)
09/2018-08/2019	University of California at Berkeley Graduate Division Mentored Research Award (US\$34,877)
01/2009-12/2009	National Collegiate Inventors & Innovators Alliance, Massachusetts, USA Global Social Entrepreneurship Grant (US\$10,000)

RESEARCH FUNDING & SUPPORT

05/2023-06/2024	UCSF Pulmonary & Critical Care Medicine T32 Training Fellowship Public health policies to reduce disparities Role: PI [in partnership with California Department of Public Health]
07/2023-06/2024	California Collaborative for Pandemic Recovery and Readiness Research How did geographical variation in the effects of COVID-19 equity-focused policies influence the trajectory of social and economic factors? Implications for California's pandemic recovery Role: PI [in partnership with California Department of Public Health]
05/2022-06/2024	The Centers for Disease Control and Prevention Foundation Evaluating Equity-Focused COVID-19 Policies in California Role: Co-Investigator [PI: Priya Shete; in partnership with California Department of Public Health]
10/2020-02/2022	California Prison Health Care Receivership Office California Prison Roadmap for Targeting Efforts to Address the Ecosystem of COVID Transmission Role: Co-PI [PI: David Sears; Co-Is: Brie Williams, Stefano Bertozzi]
01/2016-05/2017	World Bank Youth Innovation Fund Development of a Sesame Street 'Healthy Habits' behavior change intervention (US\$15,000) Role: PI [with Sesame Workshop's Latin America & Caribbean Regional team]
11/2013-06/2021	Bill and Melinda Gates Foundation India Country Office Surveillance of Quality of Tuberculosis Care in urban India (US\$2,351,021) Role: Co-Investigator [Co-PIs: Madhukar Pai & Jishnu Das]
02/2012-04/2020	Bill and Melinda Gates Foundation & (former) UK DFID African Health Markets for Equity Impact Evaluation Role: Co-Investigator [PI: Paul Gertler]

11/2011-08/2019 Bill and Melinda Gates Foundation
Optimizing the Response in Prevention: HIV Efficiency in Africa (\$5,010,678)
Role: Co-Investigator [PI: Sergio Bautista-Arredondo]

01/2013-12/2014 Fondo Sectorial de Investigación en Salud y Seguridad Social (FOSSIS-CONACyT)
A Mobile Health Intervention to Improve Care for Patients with HIV/AIDS in Mexico City (US\$80,000)
Role: Co-PI [Co-Is: Sergio Bautista-Arredondo & Sandra Sosa Rubi]

PROFESSIONAL ACTIVITIES

Professional service & affiliations:

2020-pres. Co-Director, Analysis Group for Peer-to-Peer Learning, UCSF Center for Tuberculosis
2020-pres. Member, American Economic Association
2020-pres. Member, American Public Health Association
2020-pres. Member, International Health Economics Association

Peer reviewer:

AJPH, BMC Health Services Research, BMJ, BMJ Global Health, Health Affairs, Health Policy and Planning, Implementation Science Communications, International Journal of Prisoner Health, International Journal of Tuberculosis and Lung Disease, JAMA Network Open, Journal of Clinical Tuberculosis and Other Mycobacterial Diseases, PLOS One, Tuberculosis.

Invited Presentations:

- Tuberculosis Public-Private Mix Learning Network, Virtual; Feb 2024
- California Department of Public Health, Virtual; May 2023, June 2023, Dec 2023
- London School of Hygiene and Tropical Medicine, London; Apr 2019
- Champalimaud Foundation, Lisbon; Aug 2018
- Bill & Melinda Gates Foundation, Seattle; May 2018
- Innovations for Poverty Action, Kampala; Aug 2017
- Johnson & Johnson, New Brunswick, NJ; Jan 2016
- Sesame Workshop's Global Health Initiative Advisory Meeting, New York City; Jun 2013

Conference Presentations & Posters:

- APHA Annual Meeting and Expo, Nov 6-9, 2022
- APHA Annual Meeting and Expo, Oct 24-27, 2021
- iHEA World Congress, Jul 12-15, 2021
- NBER Summer Institute: Productivity, Development, and Entrepreneurship, Jul 2021
- Pacific Conference for Development Economics (UCSD), Mar 2021
- Empirical Management Conference (Cornell), Dec 2020
- 6th Global Symposium on Health Systems Research, Nov 2020
- UCSF Center for Tuberculosis Conference; Mar 2020
- Small and Medium Enterprise Program 10th Working Group Meeting (MIT), Nov 2019
- 50th Union World Conference on Lung Health. Hyderabad; Oct 2019
- University of California at Berkeley School of Public Health 75th Anniversary, Apr 2018
- 48th Union World Conference on Lung Health, Guadalajara, Mexico; Oct 2017
- Rosalynn Carter Institute Annual Summit, Americus, GA; Oct 2015
- APHA 142nd Annual Meeting, New Orleans; Nov 2014
- 20th International AIDS Conference, Melbourne; Jul 2014

- 141st APHA Annual Meeting, Boston, MA; Nov 2013
- XVIII International AIDS Conference, Vienna; Jul 2010
- AMIA Spring Congress, Orlando, FL; May 2009
- 4th Annual US HUPO. Bethesda, MD; Mar 2008
- Association of Biomolecular Resource Facilities Conference. Salt Lake City, UT; Feb 2008
- 6th Annual HUPO World Congress. Seoul; Oct 2007

Other Notable Activities:

- UCSF Epidemiology, Biostatistics and Population Science Curriculum: Implementation Science Course Small Group Facilitator, California, USA; March 2023
- Berkeley Institute for Transparency in the Social Sciences Summer Institute, California, USA; 2015
- Capacity Building Workshop for Rwandan Public Health Professionals, Kigali, Rwanda; 2010
- Advanced Invention to Venture Workshop on Sustainable Development, Stanford Institute of Design, California, USA; 2010
- Global Social Entrepreneurship Competition (Semi-Finalist), University of Washington School of Business, Seattle, USA; 2009

OTHER INFORMATION

Statistical Programming Skills: STATA; R

Languages: English (native in speaking, reading, writing)
 Intermediate Spanish (fluent in speaking; intermediate in reading, writing)
 Basic Cantonese (conversational only; no proficiency in reading, writing)