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Division of Health Policy and Management
UC Berkeley School of Public Health
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EDUCATION

- Ph.D. University of California, Berkeley
Health Policy (concentration in Health Economics), expected May 2022
Committee: William H. Dow (chair), Paul J. Gertler, Lia C.H. Fernald, Jonathan Kolstad

Economics: Health Economics, Development Economics
Global Health Policy: Maternal and Child Health, Quality of Care, Health Workforce
- M.A. University of California, Berkeley, Economics (concurrent), 2019
Minor Fields: Development and Labor Economics
- B.A. Harvard University, Social Studies, *magna cum laude*, 2013
Senior Thesis: "Rights within Reach: Implementing Maternal Health Care Rights for Colombia's Displaced Women"

PUBLICATIONS

- **Dieci, Maria**, Zachary Wagner, Willa Friedman, Sarah Burgess, Jessica Vandermark, Sandra I. McCoy, Manisha Shah, and William H. Dow. "Measuring Family Planning Provider Bias: A Discrete Choice Experiment among Burkinabé, Pakistani, and Tanzanian Providers." *Studies in Family Planning* 52, no. 3 (2021): 299-320. [link](#)
- **Dieci, Maria**, Juan J. Llibre-Rodriguez, Daisy Acosta, and William H. Dow. "Cuba's cardiovascular risk factors: International comparison of levels and education gradients." *Plos one* 16, no. 3 (2021): e0247831. [link](#)
- Rosen, Daniel, Jessica Vernon, Rachel Silverman, Elizabeth Juma, **Maria Dieci**, and Prashant Yadav. "Malaria Case Management After the Affordable Medicines Facility for Malaria (AMFm): Availability, Quality, and Market Share for ACTs in Kenya's Private Pharmacies," Center for Global Development Working Paper Series 561 (2020). [link](#)

DISSERTATION

Patient vs. provider incentives for malaria care in Kenyan pharmacies: A cluster randomized controlled trial

Malaria afflicts 190 million people in sub-Saharan Africa each year, with children, pregnant women, and the poor bearing the brunt of the burden. Nearly all deaths and serious illness are preventable through available, effective, and inexpensive medication, and clinical guidelines clearly recommend testing prior

to treatment. Despite this, most malaria cases are undiagnosed, resulting in a gap between treatment and need: missed diagnoses result in avoidable illness, and over-prescription of antimalarials can lead to drug resistance. Most malaria patients seek care at pharmacies, where I hypothesize that the mismatch between diagnosis and treatment reflects a misalignment of patient and provider incentives. In my dissertation, I investigate how realigning patient and provider incentives to diagnose suspected malaria cases prior to treatment can improve malaria case management. Building on prior work on the impact of subsidies for rapid diagnostic tests (RDTs) and malaria treatments, I test whether targeted incentives for RDTs and first-line antimalarials only to malaria-positive cases will improve treatment targeting through increasing test result adherence. Using a cluster randomized trial design in 140 pharmacies in malaria-endemic zones in Kenya, I randomize patient discounts and pharmacist performance incentives and compare their effectiveness and cost-effectiveness to the status quo standard of care. Pharmacies were randomized to a status quo control group or one of three treatment groups using a digital malaria case management tool: (1) patient discounts for RDTs and first-line antimalarials conditional on a positive test; (2) pharmacy incentives for selling RDTs to diagnose fevers and for selling first-line antimalarials conditional on a positive test; and (3) patient discounts and pharmacy incentives for RDT use and first-line antimalarial use for confirmed malaria-positive cases. This design allowed us to evaluate the impact of two part incentive structures as well as to examine the causal effect of targeting that incentive to the patient (demand-side) or the provider (supply-side). Preliminary findings from ~80 sites suggest that subsidies and incentives for diagnostic testing increase usage of testing and may nudge malaria positive individuals to purchase high quality antimalarials and improve treatment targeting. Data collection is ongoing until early 2022, and analysis is in progress.

OTHER SELECTED WORK IN PROGRESS

- Impact evaluation of pharmacy-based incentives for long acting contraception on women's access to family planning in Kenya. *Funding obtained, piloting in progress, with Paul Gertler.*
- Impact of early life shocks on child health and cognition outcomes in Madagascar, focus on understanding changes in parental health investments
- Process evaluation of group-adaptation of early child development intervention in Madagascar. *Data collection in progress, with Lia C.H. Fernald, Emanuela Galasso, Ann Weber, Caitlin Hemlock, and Lisy Ratsifandrihamanana.*

PROFESSIONAL EXPERIENCE

RESEARCH

2015-2016	Senior Research Associate, Innovations for Poverty Action, Zambia
2013-2015	Research Analyst for Prof. Dean Karlan (Yale), Innovations for Poverty Action

TEACHING

2018-2021	Teaching Assistant, Division of Health Policy and Management, UC Berkeley
	Health Economics (undergraduate/graduate), Fall 2018, Fall 2019
	<i>Outstanding Graduate Student Instructor Award</i>
	Economic Evaluation and Population Health (graduate, online), Spring 2018, Spring 2019, Spring 2021

SERVICE

2017 – 2021	Division of Health Policy and Management, UC Berkeley Executive Committee (2018-2021) Graduate Admissions Committee (Fall 2017, Fall 2018)
2020-2021	Berkeley Economists for Equity Finance Officer Diversity in Admissions Officer

REFEREEING *Studies in Family Planning*

CONFERENCE PRESENTATIONS

2021	Center for Global Development and Maisha Meds “New Approaches to Improve Malaria Case Management in the Private Sector” convening, UC Berkeley Development Economics Lunch Seminar Series
2020	PAA Annual Meeting (cancelled due to COVID-19); Society for Research in Child Development; UC Berkeley Development Economics Lunch Seminar Series
2019	AHRQ Trainee Conference; Center for Effective Global Action (CEGA) Evidence to Action Conference; UC Berkeley Center on the Economics and Demography of Aging Workshop; PAA Annual Meeting
2018	Population Association of America (PAA) Annual Meeting; American Society of Health Economists (ASHEcon) Conference; International Health Economics Association (iHEA) World Congress
2017	Agency for Healthcare Research and Quality (AHRQ) Trainee Conference
2014	Latin American Social and Public Policy Conference

GRANTS, AWARDS AND FELLOWSHIPS

- Co-Principal Investigator on Children’s Investment Fund Foundation grant for project “Increasing access to contraceptive choice through targeted incentives: a cluster randomized controlled trial.”, with Paul Gertler. (\$250,000 USD, 2021-2022)
- Co-Principal Investigator on United States Agency for International Development, Development Impact Ventures Stage II Award # 7200AA18FA00009 for project “A Digital Approach for Targeted Malaria Treatment”, with Paul Gertler, Jonathan Kolstad and Jessica Vernon. (\$400,000 USD, 2019-2022)
- Co-Principal Investigator on Bill and Melinda Gates Foundation award for project “A Digital Approach for Targeted Malaria Treatment”, with Paul Gertler, Jonathan Kolstad and Jessica Vernon. (\$320,392 USD, 2019-2022)
- UC Berkeley School of Public Health Alumni Association Award (2018-2021)
- Trainee on Agency for Healthcare and Research Quality (AHRQ) T-32 Fellowship (2018-2019)
- Trainee on National Institute of Child Health and Human Development (NICHD) T-32 Fellowship (2016-2018)

OTHER INFORMATION

Languages	English (native), Italian (native), Spanish (professional), French (proficient)
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Programming

Stata, R, Python, Open Data Kit, LaTeX, ArcGIS, SQL, Matlab