CURRICULUM VITAE

**Maya L. Petersen, M.D., Ph.D.**

October 2021

**CURRENT POSITION**

Professor, Divisions of Biostatistics and Epidemiology, School of Public Health, University of California, Berkeley

**PERSONAL DATA**

*Business Address*:

University of California, Berkeley

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*Home Address*: 236 Elsie St., San Francisco, CA 94110

*Date and Place of Birth*: April 6, 1976; Tucson, AZ, USA

*Marital Status and Children*: Joshua Schwab (husband), Jasper (2011), Taavi (2015)

**CURRENT MAJOR ADMINISTRATIVE ROLES**

Berkeley Director, UC Berkeley-UCSF Joint Program in Computational Precision Health

Co-Director, UC Berkeley Center for Targeted Learning and Causal Inference

Co-Director, NIH (T32HD101364) Computational Social Science Training Program (with D. Harding, H. Haveman)

Principal Investigator: SEARCH- SAPPHIRE: A Multisectoral Strategy to Address Persistent drivers of the HIV epidemic in East Africa (MPI with D Havlir, M Kamya; NIH U01AI150510-02)

Principal Investigator: Targeted Learning for Adaptive Trial and Surveillance Designs (MPI with M van der Laan; NIH R01AI 074345-10)

Principal Investigator: Joint Initiative for Causal Inference: Philanthropic partnership between UC Berkeley, University Copenhagen, Novo Nordisk (MPI with M van der Laan)

**FACULTY AFFILIATIONS**

Augmented Graduate Group in Computational Precision Health, University of California, Berkeley- University of California, San Francisco

Graduate Group in Biostatistics, University of California, Berkeley

Graduate Group in Epidemiology, University of California, Berkeley

Berkeley Institute for Data Science (BIDS), University of California, Berkeley

Center for Effective Global Action (CEGA), University of California, Berkeley

Center for Global Health (Delivery, Diplomacy, and Economics), University of California, Berkeley

Center on the Politics of Development, University of California, Berkeley

**EDUCATION**

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| --- | --- | --- | --- |
| 1994-1998 | Stanford University  Stanford, CA | B.A. | Human Biology, *Distinction* and *Honors* |
| 1999-2002 | University of California,  Berkeley | M.S. | Health and Medical Science (UCB-UCSF  Joint Medical Program) |
| 2002-2007 | University of California,  Berkeley | Ph.D. | Biostatistics |
| 2007-2009 | University of California,  San Francisco | M.D. | Medicine, *Alpha Omega Alpha (A.O.A.)* |

**EMPLOYMENT**

|  |  |  |
| --- | --- | --- |
| 2009-2015 | University of California, Berkeley  School of Public Health | Assistant Professor of Biostatistics and Epidemiology |
| 2015-2021 | University of California, Berkeley  School of Public Health | Associate Professor of Biostatistics and Epidemiology |
| 2021-present | University of California, Berkeley  School of Public Health | Professor of Biostatistics and Epidemiology |

**HONORS and AWARDS**

1997 Phi Beta Kappa, Stanford University

2001 Commencement Speaker, Human Biology Program, Stanford University

2001-06 Howard Hughes Medical Institute Pre-Doctoral Fellowship in Biological Sciences

2007 Evelyn Fix Prize (PhD student showing the greatest promise in statistical research in biology and health), UC Berkeley

2008 Conference on Retroviruses & Opportunistic Infections Young Investigator Award

2009 Alpha Omega Alpha (Honor Medical Society), UC San Francisco

2011 Hellman Family Faculty Fund Award, UC Berkeley

2011-14 Doris Duke Clinical Scientist Development Award

2014 American Statistical Association Causality in Statistical Education Award

2014-2020 School of Public Health Committee on Teaching Excellence Award, UC Berkeley

2021 San Francisco Mayor London Breed Proclaims June 18, 2021 “Maya Petersen Day”, in the City and County of San Francisco, in recognition of work supporting the San Francisco COVID-19 response

2022 National Academy of Medicine Emerging Leaders Forum

**PROFESSIONAL ACTIVITIES**

*Service to Professional Publications*

2011-present co-Editor-in-Chief,

Founding Editor *Journal of Causal Inference*

2010-present Editorial Board *Epidemiology*

2011-2019 Editorial Board *Epidemiological Methods*

2018 Guest Editor *PLoS One*

2019 Guest Editor *JAIDS, Implementation Science Special Issue*

Various Dates Ad Hoc Reviewer *Science, Lancet, PLoS Medicine, Journal of the American Statistical Association, Annals of Statistics, Journal of Infectious Disease, Epidemiology, American Journal of Epidemiology, International Journal of Epidemiology, Epidemiological Methods, Journal of the Royal Statistical Society, Series B; Biometrika, Biometrics, Statistics in Medicine, Biometrical Journal, Statistical Applications in Genetics and Molecular Biology, Journal of the Canadian Medical Association, International Journal of Biostatistics, Journal of Causal Inference, Journal of Applied Statistics, Statistical Science, JAIDS, AIDS*

*Service to the University*

2014-2015 Academic Senate Committee on Undergraduate Scholarships and Honors

2015-present Academic Senate Committee on Academic Freedom

2018-2021 Co-Chair, Interdepartmental Graduate Group in Biostatistics

2019-present Co-Director, NIH (T32HD101364) Computational Social Science Training Program

2020 COVID-19 Public Health & Testing Advisory Committee to the Chancellor

2020 Graduate Council Committee on Fellowships and Graduate Scholarships

2020-2021 UC Berkeley- UCSF Joint Work Group in Computational Precision Health

2021-2022 Chair, Faculty Search Committee, open-rank cluster hire in Computational Precision Health

2021-present Berkeley Director, UC Berkeley-UCSF Joint Program in Computational Precision Health

*Service to the School of Public Health*

2011-2013 School of Public Health Committee on Research

2014 Strategic Planning Research Working Group, School of Public Health

2014 Faculty Search Committee, Tenure-Track in Biostatistics

2014-2015, 2020 Education Policy and Curriculum Committee, School of Public Health

2015 Faculty Search Committee, Tenure-Track in Biostatistics

2015 Communications Advisory Board, School of Public Health

2015-2018 School of Public Health Faculty Advisory Council

2017-2018 Faculty Search Committee, Tenure-Track in Data Science

2018 Faculty Search Committee, Adjunct in Biostatistics

2018-2019 Faculty Search Committee, Tenure-Track in Data Science

2019-2020 Co-Chair, SPH Working Group: Biostatistical Training for MPH programs

2009-present Admissions Committee for Biostatistics MA and PhD programs

2015-present Multiple *ad hoc* review committees

2020-2021 Chair, Div. of Biostatistics, School of Public Health

*Additional Professional Service*

2009 Grant Review, National Institutes of Health

2011 Grant Review, Bill and Melinda Gates Foundation

2011-2012 Consultant to the World Bank, Impact Evaluation for HIV Combination Prevention Programs.

2011-2013 Statistician, Data Safety Monitoring Board. Improving blood safety and HIV testing in Brazil.

2012-2017 Member, Prize Committee, Causality in Statistical Education

2013-2017 Member, Executive Committee, Berkeley Initiative for Transparency in the Social Sciences

2014-2018 Chair, Data Safety Monitoring Board. Phase II Trial on Rizatriptan for vestibular migraine.

2017 Chair, Concurrent Contributed Session. 50th Annual Meeting of the Society for Epidemiological Research.

2019 co-Chair, Concurrent Contributed Session. Annual Meeting of the Society for Epidemiological Research.

2018-present co-Chair, Prize Committee, Causality in Statistical Education

2019-present Member, Executive Planning Committee for American Causal Inference Conference 2021

2019-present Member, Data Safety Monitoring Board, Improving Health Outcomes for an Aging Population (PI Duflo)

2020 Organizing committee: Online Causal Inference Seminar

2020- present COVID-19 mathematical modeling and decision support for the City of San Francisco, St. Louis and Bay Area counties, the states of California and Missouri

2020 Organizing committee, Workshop on Mathematical Models for Prediction and Control of Epidemics, Mathematical Sciences Research Institute

2020- present co-Chair, UC Health-California Department of Public Health COVID Modeling Consortium

2021-present Program Faulty, NIH-funded D43:  "Building Implementation Science Capacity at Makerere University to Strengthen the Response to the HIV/AIDS Epidemic in Uganda"

2021-2022 co-Chair, Organizing Committee. American Causal Inference Conference 2022. Berkeley, CA

**INVITED LECTURES, PRESENTATIONS (selected list)**

2003 6th International Conference on Healthcare Resource Allocation for HIV/AIDS (ICHRA): Healthcare Systems in Transition. “The Brazilian response to the HIV epidemic.” Washington, DC, USA.

2005 Joint Statistical Meetings (JSM). “History-Adjusted Marginal Structural Models and Time-Dependent Causal Effect Modification.” Minneapolis, Minnesota, USA.

2005 American Public Health Association (APHA) Annual Meeting. “History-Adjusted Marginal Structural Models: an application in HIV research.” Philadelphia, Pennsylvania, USA.

2006 Workshop on Quantitative Methods for Antiviral Resistance. Collaborative Forum for HIV Research “Variable Importance Measures to Rank the Effects of Viral Mutations on Clinical Virologic Response” Boston, Massachusetts, USA.

2006 American Congress of Epidemiology. “Models for direct effects: generalization and estimation illustrated in a study of treatment for HIV.” Seattle, Washington, USA

2006 The Western North American Region of the International Biometric Society (WNAR) Annual Meeting. “Individualized Treatment Rules: Generating Candidate Clinical Trials.” Flagstaff, Arizona, USA

2006 Howard Hughes Medical Institute Fellows Meeting. “Statistical estimation of individualized treatment rules: Deciding when to modify the antiretroviral therapy regimen of individuals infected with resistant HIV.” Chevy Chase, Maryland.

2007 Biostatistics and Epidemiology Seminar Series, UCLA “Estimation of direct effects: Illustration in a study of the treatment of HIV infection.” Los Angeles, USA.

2007 Society for Epidemiological Research (SER) annual meeting. “Marginal structural models and inverse probability of treatment weighting for the estimation of causal effects: An introduction based on the antiretroviral treatment of HIV infection.” Boston, Massachusetts, USA.

2008 Conference of the International Epidemiologic Association. “Application of inverse probability weighting to improve the treatment of antiretroviral resistant HIV infection. “ Porto Alegre, Brazil.

2008 Biostatistics Seminar Series, McGill University. “Inverse probability weighting to improve the treatment of antiretroviral resistant HIV infection; practical aspects of implementation and extension to dynamic treatment regimes.” Montreal, Canada.

2009 Joint Statistical Meetings (JSM). “Estimation of dynamic treatment regimes and extrapolation to populations with distinct monitoring structures: The use of laboratory monitoring to detect HIV treatment failure.” Washington. DC, USA.

2010 NIVEL Institute Conference on Real Time Medication Monitoring. “Analyzing Real-Time Adherence Data to Predict Virologic Rebound in HIV Patients.” Utrecht, Netherlands.

2010 Neyman Seminar, UC Berkeley. “Application of causal Inference Methods to Improve Treatment of HIV in Resource-Limited Settings.” Berkeley, CA, USA

2010 Invited Talk, Department of Preventive Health, University of Bern. “Application of causal inference methods to improve the treatment of HIV in resource-limited settings.” Bern, Switzerland.

2010 World Bank Meeting on the Evaluation of Combination Prevention Programs. “Community Randomization, Covariate Adjustment, and Adaptive Designs” Washington, D.C., USA

2010 Center for AIDS Prevention Studies Core Methods Seminar. “Application of Causal inference methods to improve the treatment of HIV in resource-limited settings.” San Francisco, CA, USA

2012 National Roundtable on Evaluation of Multi-Level/ Combination HIV Prevention Interventions. “Causal inference and semi-parametric estimation methods to improve evaluation of HIV prevention interventions.” San Francisco, CA, USA

2012 International AIDS Society Satellite Session: Global Cohort Collaborations and the Role of Extremely Large Data Sets in HIV/AIDS and Other Diseases. “Methods for Analyzing Data from Global Cohort Collaborations: Causal Frameworks and Efficient Estimators” Washington DC, USA

2012 Joint Statistical Meetings (JSM). “'Loss-to-Follow-Up' in Observational Clinical Cohorts: Longitudinal effect estimation in the presence of informative monitoring.” San Diego, CA, USA

2012 CEGA workshop on Pre-analysis Plans and Study Registration in Social Science Research. “Pre-specified analysis plans and learning from data. Where are we and where are we going?” Berkeley, CA, USA.

2013 International Epidemiologic Databases to Evaluate AIDS. “Estimating the Causal Effects of Longitudinal Exposures. Novel statistical methods and software.” Atlanta, GA, USA

2013 International Conference on HIV Treatment and Prevention Adherence Pre-Conference Symposia. “Novel Technologies for Adherence Assessment and Support”. Miami Beach, Florida, USA

2013 Plenary talk, Meeting of the Society for Epidemiological Research (SER). “Casual Methods in the Service of Good Epidemiological Practice: A Roadmap.” Boston, MA, USA

2014 Bay Area Colloquium in Population, UC Berkeley Population Center. “From Data to Impact. Population Research in the Age of Big Data.” Berkeley, CA, USA

2014 Berkeley Initiative for Transparency in the Social Sciences Research Transparency Forum. “Adaptive Pre-Specification.” Berkeley, CA. (https://osf.io/k4dcv/)

2015 Conference on Behavioral Health Economics, CEGA. “Machine Learning for Causal Effect Estimation.” Berkeley, CA, USA.

2015 Plenary, Society for Epidemiologic Research (SER) Digital. “Big Data: What it Means for Epidemiology.”

2016 Conference on causal inference methods for Patient Centered Outcomes Research. “A systematic road map for translating a CER question into a statistical analysis.” And “Super Learning and Targeted Maximum Likelihood Estimation.” Washington, DC.

2016 4th UK Causal Inference Meeting. “Targeted learning for personalized medicine and public health: Evaluation of longitudinal dynamic regimes.” London, UK.

2016 2016 Epidemiology Congress of the Americas. “Precision medicine and causal inference – beyond the average treatment effect” Miami, FL.

2017 Institute for Disease Modeling 5th Annual Disease Modeling Symposium. “The SEARCH Study: A cluster randomized HIV prevention and treatment trial in rural Kenya and Uganda.” Seattle, WA

2017 Keynote, Big Data & Healthcare Analytics Forum. “Using Bigger Data Better to Improve Population Health. (with Stefano Bertozzi)” San Francisco, CA

2017 Plenary: Machine Learning and Causal Inference to Improve Public Health, Xth Epidemiology Congress of Brazil, Florianopolis, Brazil.

2018 Accelerating ART scale-up: SEARCH vs. BCPP. In: Challenges to and Controversies in Achieving Progress toward Epidemic Control in PEPFAR-supported Countries: Perception vs. Data. AIDS 2018, Amsterdam, Netherlands.

2018 SEARCH & BCPP: Implications for Program What are the key lessons for countries already scaling universal ART initiation? PEPFAR Scientific Advisory Board Meeting.

2019 Adaptive designs integrating machine learning to advance implementation science: examples from the HIV epidemic response in eastern Africa. 2nd Stanford Colloquium on machine learning and causal inference. Stanford, CA.

2019 Targeted Maximum Likelihood Estimation, integrating machine-learning, to evaluate the effects of longitudinal interventions including dynamic regimes. Center for AIDS Prevention Studies (CAPS). San Francisco, CA

2019 Cluster randomized trial design and interpretation in a rapidly evolving policy and implementation context: Insights from the Sustainable East Africa Research on Community Health (SEARCH) Trial. Annual Meeting, Society for Epidemiological Research. Minneapolis MN.

2020 Creating informed responses: Berkeley’s computing and data science in action, Berkeley Conversations- COVID19. Virtual.

2020 Science and Solutions. Berkeley Conversations- COVID19. Virtual.

2020 Looking forward: How can we safely reopen the economy? Berkeley Conversations- COVID19. Virtual.

2020 Adaptive surveillance designs for epidemic control. Mathematical Models for Prediction and Control of Epidemics, Mathematical Sciences Research Institute. Virtual.

2020 Targeted machine learning to evaluate the effects of longitudinal interventions: Examples from HIV. Victorian Centre for Biostatistics (ViCBiostat), Melbourne, Australia. Virtual.

2021 The Challenge of Transparency in COVID-19 Research. Keynote Panel Moderator. Berkeley Initiative for Transparency in the Social Sciences 9th Annual Meeting. Virtual.

2021 Causal Inference and Computational Precision Health: Frontiers in the improvement of clinical care and population health. Novo Nordisk Foundation, Copenhagen, Denmark.

2021 Data Science of Tomorrow. What is it and how do we achieve it? Novo Nordisk. Copenhagen, Denmark.

2022 SMART Designs to Evaluate Dynamic Regimes: The ADAPT-R Trial in Kenya. [Causal Inference from Longitudinal Data](https://www.longitudinaldataanalysis.com/). Jacobs / Cifar Workshop. Virtual (>1800 persons registered)

**TEACHING AND MENTORING**

*Summary:* Meeting today’s global health challenges requires integrating the languages, perspectives, and insights of statistical theory, clinical medicine, health care delivery, and the social and behavioral sciences. My teaching aims to serve that role by 1) training academic statisticians to pursue methods research that is informed by cross-disciplinary understanding of real world problems, and 2) training applied researchers in the use of cutting edge statistical methods. My three semester series of courses in causal inference methods, which cover semi-parametric estimation integrating machine learning, regularly enroll students from graduate programs in biostatistics, epidemiology, statistics, environmental health sciences, education, social welfare, psychology, and other disciplines. My teaching has received multiple school level awards, as well as the International Causality in Statistical Education Award from the American Statistical Association. My mentoring also spans disciplines and programs. I regularly mentor doctoral students in Biostatistics and Epidemiology, and post-doctoral fellows in Biostatistics and Epidemiology at UC Berkeley, and clinical fellows and junior faculty in Medicine at UCSF I believe passionately in the intellectual work of translation across disciplinary boundaries, and in communicating complex concepts clearly, rigorously, and non-technically so that they are accessible to broad audiences. To this end, I regularly publish reviews, teaching papers, and invited commentaries and give numerous invited talks at international conferences. I further serve as the co-Director (with David Harding and Heather Haveman) of an NIH funded T-32 Training grant in Computation Social Sciences, which provides fellowships to Berkeley PhD students demography, public health, public policy, social epidemiology, social welfare, and sociology.

*UNIVERSITY OF CALIFRONIA, BERKELEY COURSES*

Introduction to Causal Inference. PH 252D. (4 Units)

*Students:* Graduate students in biostatistics, epidemiology, statistics, environmental health sciences, education, social welfare, jurisprudence, and other graduate programs.

*Content:* This course presents a general framework for causal inference using directed acyclic graphs, non-parametric structural equation models, and counterfactuals. Marginal structural models and causal effect estimation using inverse probability of treatment weighting, G-computation, and targeted maximum likelihood are introduced. In two-part presentations, students define and implement research questions. Course materials available at <http://www.ucbbiostat.com>. Winner 2014 American Statistical Association Award.

Advanced Topics in Causal Inference. PH252E. (4 Units)

*Students:* Graduate students in biostatistics, epidemiology, statistics, environmental health sciences, education, social welfare, jurisprudence, and other graduate programs.

*Content:* This course covers causal models, identifiability and estimation for complex longitudinal data structures, including inverse probability of treatment weighting, G-computation, and targeted maximum likelihood for longitudinal interventions. Mediation analysis/direct and indirect effects; dynamic regimes (individualized treatment rules or adaptive treatment strategies); stochastic interventions; and approaches for diagnosing and responding to violations of the positivity assumption are covered. Course format includes a mixture of lecture, discussion or core readings, student presentations, and computer labs.

Current Topics in Causal Inference. PH 290 (2 Units)

*Students:* Graduate students in biostatistics, epidemiology, statistics, environmental health sciences, education, social welfare, jurisprudence, and other graduate programs.

*Content:*  Insights provided by formal frameworks for causal inference and statistical estimation approaches inspired by these insights are both continually evolving. This course will provide a venue for reading and discussion of recent and seminal papers on topics in causal inference not covered (or covered only briefly) in the core causal series, including: Machine-learning methods to develop and evaluate optimal dynamic regimes (i.e. adaptive or personalized interventions); formal approaches to generalizability and the transport of causal effect estimates to new contexts; mediation and direct effects; advances in casual inference for network data; non (and semi)-parametric estimation of causal effects using hierarchical data; analysis of cluster randomized trials; recent advances in the use of casual graphs for missing data problems; causal inference in the context of complex sampling (e.g. two stage and case-control); continuous exposures and stochastic interventions; identification strategies based on negative controls

MPH Capstone Research Seminar. PH 292. (2 Units).

*Students*: Second year students in the Epidemiology/Biostatistics Masters of Public Health program.

*Content:* Supports Epidemiology/Biostatistics students as they complete their Masters research project.

Epidemiology Doctoral Seminar PH 293 (2 Units)

*Students*: First year students in the Epidemiology PhD program.

*Content:* Introduces doctoral students to key aspects of epidemiological and causal reasoning.

*SHORT COURSES*

2011 Statistical Methods for Causal Inference in Observational and Randomized Studies. Forum for Collaborative HIV Research. Washington DC, USA.

2012 Targeted Learning. Joint Statistical Meetings. San Diego, CA, USA.

2014 Berkeley Initiative for Transparency in the Social Sciences Summer Institute. Berkeley, CA, USA.

2015 Berkeley Initiative for Transparency in the Social Sciences Summer Institute. Berkeley, CA, USA.

2017 Causal Inference and Adaptive Designs. Liver Forum. Washington DC, USA.

2019 Introduction to causal inference for multiple time point exposures, SER, Minneapolis, MN, USA

2019 Targeted maximum likelihood estimation, integrating machine-learning, to evaluate the effects of longitudinal interventions. Causal Inference Methods for PCOR using Observational Data (CIMPOD) research series.

2019 Introduction to Casual Inference. San Francisco Department of Public Health.

2020-2021 Joint Initiative on Causal Inference 2020-21 Webinar Series (UC Berkeley, University of Copenhagen, Novo Nordisk) [JICI Webinar Series](https://bids.berkeley.edu/events/jici-spring-2021-webinar-series-session-1)

*PHD DISSERTATIONS CHAIRED/CO-CHAIRED*

2014 Daniel Brown. PhD, Biostatistics. Applications of Causal Inference Methods to Problems of Occupational Epidemiology. Data Scientist at Contra Costa Health Services

2015 Erin LeDell. PhD, Biostatistics. Computationally Efficient Super Learning Methods for Building Optimal Prediction and Classification Models. Chief Machine Learning Scientist at H2O.ai

2015 Laura Balzer. PhD, Biostatistics. Cluster Randomized Trial Design and Analysis: Applications to the SEARCH Study. Assistant Professor of Biostatistics at University of Massachusetts, Amherst.

2016 Linh Tran. PhD, Biostatistics. Longitudinal Targeted Maximum Likelihood Estimation: Applications to Improve Patient HIV care in East Africa. Data Scientist at Google Brain and Lecturer at Stanford University

2017 Varada Sarovar. PhD, Biostatistics. Targeted Maximum Likelihood Estimation for Evaluation of the Health Impacts of Air Pollution. Senior Data Consultant at Kaiser Permanente Division of Research.

2020 Alejandra Benitez. PhD, Biostatistics. Targeted machine learning approaches for leveraging data in resource-constrained settings. Statistical Scientist, Genentech.

2020 Lina Montoya. PhD, Biostatistics. Estimation and Evaluation of the Optimal Dynamic Treatment Rule: Practical Considerations, Performance Illustrations, and Application to Criminal Justice. Initial Placement: Post-doctoral Scholar, University of North Carolina.

Current David Chen. Ph.D. Biostatistics. Improved estimation methods for randomized controlled trials; applications to cardiovascular outcome trials (working title)

Current Shalika Gupta. PhD, Epidemiology. Hierarchical mediation analysis: Applications to vertical HIV transmission in setting of Universal HIV Test and Treat (working title)

Current Nerissa Nance. PhD, Epidemiology. TBD.

*SELECTED ADDITIONAL GRADUATE STUDENT MENTORING*

2011 Farnaz Vahidnia (PhD, Epidemiology, dissertation committee member) GB Virus Type C (HGV) and Human Immunodeficiency Virus (HIV) Co-Infection: Incidence and Impacts on Survival in a Cohort of HIV-Infected Transfusion Recipients

2011 Wenjing Zheng (MA, Biostatistics, thesis committee member) Targeted Minimum Loss Estimation: Theory and application to estimation of community based interventions

2012 John Metcalfe (PhD, Epidemiology, dissertation committee member) Critical Evaluation of Tuberculosis Diagnostic Tests in Low- and High- Burden Settings

2012 Ann Weber (PhD, Epidemiology, dissertation committee member) Challenges of Evaluating the Causal Effects of Early Child Development Programs

2012 John P Ekwaru (PhD, Epidemiology, dissertation committee member) The effect of Abstinence, Being faithful to one partner, and Condom use (ABC) messages on HIV infection among youth in Uganda

2013 Julia Marcus (PhD, Epidemiology, dissertation committee member) Maximizing Effectiveness of HIV Preexposure Prophylaxis Among Men Who Have Sex with Men

2014 Wenjing Zheng (PhD, Biostatistics, dissertation committee member) Semiparametric and Robust Methods for Complex Parameters in Causal Inference

2014 Hope Biswas (PhD, Epidemiology, dissertation committee member) Epidemiologic, clinical and laboratory features of pediatric dengue in Nicaragua

2014 Colleen Reid (PhD, Epidemiology, dissertation committee member) Spatiotemporal exposure modeling and epidemiological analyses of the 2008 northern California wildfires

2014 David Etoori (MPH, Epidemiology and Biostatistics, thesis chair). Super learner prediction of virologic suppression using electronic adherence data.

2015 Hannah Leslie (PhD, Epidemiology, dissertation committee member) Collective Efficacy, Alcohol Outlet Density, and Young Adults’ Alcohol Use in Rural South Africa

2016 Allison Hughes (PhD, Epidemiology, dissertation committee member) On the road to zero in San Francisco: understanding population dynamics, HIV transmission and internalized HIV stigma

2016 Cheng Ju (PhD Biostatistics, dissertation committee member) A General Ensemble Learning Framework for Online and Offline Machine Learning

2016 Minh Nguyen (MA, Biostatistics, thesis committee member) Rethinking Blood Ratios in Massive Transfusion for Trauma Patients

2016 Nancy Czaicki (PhD, Epidemiology, dissertation committee member) Incentives for ART Adherence among People Living with HIV in Tanzania: Mechanisms of Action and Measuring Impact.

2016 Hannah S. Laqueur (MA, Biostatistics, Thesis Chair) Synthetic Crowdsourcing: A Machine-Learning Approach to the Problems of Inconsistency and Bias in Adjudication

2017 Deysia Levin (PhD, Epidemiology, dissertation committee member) Neighborhood Trajectories: The Impact of Alcohol Outlet Density on Drug and Alcohol Relapse

2017 Sudeb C. Dalai (PhD, Epidemiology, dissertation committee member) Molecular Epidemiology of Human Immunodeficiency Virus Type 1 (HIV-1) in Southern Africa and Northern California

2017 Lina Montoya (MA, Biostatistics, Thesis Chair). The Effect of Specialty Mental Health Probation on Public Safety Outcomes

2017 Alejandra Benitez (MA, Biostatistics, Thesis Chair). Use of Real Time Electronic Adherence Monitoring to Predict HIV Virological Failure in Rural Uganda

2018 Ellie Colson (PhD, Epidemiology, dissertation committee member) Assessing the impact of community violence on self-harm in California: A multi-level population-based study

2018 Megha Mehrotra (PhD, Epidemiology UCSF, dissertation committee member) Transportability of Pre-exposure Prophylaxis RCT based effectiveness estimates to new settings and populations.

2018 Maximo Prescott (MPH in Epidemiology & Biostatistics, thesis chair). HIV Pre-Exposure Prophylaxis and the Effects of Partnership Characteristics on Condom Use Among Men Who Have Sex with Men in San Francisco, California.

2018 Jennifer Ames (PhD, Epidemiology, dissertation committee member) Factors of susceptibility to dioxins in the Seveso Women’s Health Study.

2018 Priscah C. Cheruiyot (MA Biostatistics, Thesis Chair) Impact of Patient Adherence to Scheduled Visits on All Cause Mortality.

2018 Shalika Gupta (MA Biostatistics, Thesis Chair). A Comparison of Approaches for Estimating Effects in Cluster Randomized Trials: An Application to the Fit Study

2019 Nicholas Sim (MA Biostatistics, Thesis Chair): Two-Stage Analysis of CRTs with Adaptive Pre-specification: An Application to the SEARCH Study; (PhD, Education, dissertation committee member) Beyond Standard Assumptions - Semiparametric Models, A Dyadic Item Response Theory Model, and Cluster-Endogenous Random Intercept Models.

2019 Jessica B. Poon (PhD, Health Policy, dissertation committee member) Multilevel Pathways to Patient-Centered Care

2019 Dana Goin (PhD Epidemiology, dissertation committee member) Community violence and pregnancy: An understudied exposure in the etiology of adverse birth outcomes

2019 Sarah Puryear (MPH in Epidemiology & Biostatistics, thesis chair). Associations between alcohol use and HIV care cascade outcomes among adults in Kenya and Uganda.

2020 David Chen (MA in Biostatistics, Thesis Chair). Beyond the Cox Hazard Ratio: Survival Analysis following the Targeted Learning Roadmap

2020 Kieran O’Brien (PhD Epidemiology, dissertation committee member) Improving child survival with biannual distribution of azithromycin: an exploration of optimal program design.

2020 Calvin Chi (PhD Computational Biology, dissertation committee member) Machine learning in Epidemiological and Pharmacogenomic Studies: from Application to Method Development

*SELECTED POST-DOCTORAL MENTORING*

2012-2013 Romain Pirracchio, MD, PhD. Chief, ZSFG Anesthesia and Perioperative Care, UCSF. Primary mentor during Fullbright post-doctoral fellowship at Berkeley, focused on Machine learning, clinical outcome prediction, and propensity scores

2015-2016 Noemi Kreif, PhD. Research Fellow Centre for Health Economics, University of York. Primary mentor, UC Berkeley, UK Medical Research Council Early Career Fellowship, focused on causal Inference methods for economic evaluation of health interventions

2014-2016 Wenjing Zheng, PhD. Senior Data Scientist, Netflix. Primary mentor during Center for AIDS Prevention Research (CAPS) fellowship, focused on social network analysis to improve HIV prevention and treatment.

2016-2019 Britta Jewell, PhD. Research Fellow, Imperial College London. Primary mentor, Infection Disease Modeling Institute Post-doctoral fellow, UC Berkeley, focued on Mathematical modeling of HIV “Test and Treat” in rural East Africa

2016-2020 Carina Marquez. Assistant Professor of Medicine, UCSF. Co-Mentor, NIH K23 “Childhood Tuberculosis Infection Among School-Age Children in Rural Uganda”

2017-2019 Andreas Neophytou, PhD. Assistant Professor of Epidemiology at Colorado State University. Co-mentor for NIH K99, “Air Pollution Exposures and Children's Health: Mediation and Interaction in a Counterfactual Framework”

2018-2019 Sahar Saeed, PhD. Post-doctoral Fellow, Washington University, MO. co-mentor, focused on Health disparities among persons treated with antiretroviral therapy in the United States

2018-2020 Aksel Jensen, PhD. University of Copenhagen, Section of Biostatistics. Primary Mentor, Danish Research Council Post-doctoral Fellowship. Mediation analysis: uncovering the unknown in randomized trials

2019-2020 Megha Mehrotra, PhD. Senior Epidemiologist - California Department of Public Health. Primary mentor, post-doctoral Fellowship, UC Berkeley, focused on causal inference methods in implementation science; applications to transport and Alzheimer’s Disease.

2017-present James Ayieko, MBChB, PhD, Assistant Principal Research Scientist at Kenya Medical Research Institute (KEMRI). HIV prevention and treatment strategies in Kenya

2018-2021 Lillian Brown, MD Assistant Professor, Div. of HIV, Infectious Disease and Global Health, UC San Francisco. Co-mentor NIH K23 Mentored Patient-Oriented Research Career Development Award, “Leveraging Social Networks to Improve Retention in Care and Viral Suppression Among HIV-infected Youth in East Africa”

2019-2021 Milena Gianfresco, PhD. Assistant Professor Division of Rheumatology, Department of Medicine, at the University of California, San Francisco. Co-mentor, NIH K01, Computational methods using electronic health records and registry data to detect and predict clinical outcomes in rheumatic disease.

2019-present Matthew Hickey, MD. Assistant Professor, Division of HIV, Infectious Disease, and Global Health, Department of Medicine, UCSF. Co-mentor on Retention in HIV care and integrated non-communicable disease care in East Africa.

2019-present Marilyn Nyabuti, MBChB. International AIDS Research and Treatment Program, University of Washington. Co-mentor for work on community-based HIV prevention, SEARCH SAPPHIRE.

2020-present Sarah Puryear, MD. Clinical Fellow, Division of HIV, Infectious Disease, and Global Health, Department of Medicine, UCSF. Co-mentor on NIH K23 under review “Understanding alcohol misuse and its impact on viral suppression in youth living with HIV in East Africa”.

2020 Christopher Hoover. PhD student Environmental Health Sciences. Mentor for mathematical modeling work to support the City of San Francisco and State of California COVID-19 response.

2020-present Zeyi Wang, PhD. Novo Nordisk Post-doctoral Fellow, UC Berkeley. Co-primary mentor, focused on mediation analysis of randomized controlled trials.

2021-2022 Aaron Hudson, PhD. Adaptive Designs Post-doctoral Fellow, UC Berkeley. Co-primary mentor.

**RESEARCH SUPPORT -CURRENT**

U01AI150510-02 (MPIs: Havlir, Petersen, Kamya) 09/25/2020-6/30/2025

NIH-NIAID ADC $4,002,818

Role: Multiple Principal Investigator

*A Multisectoral Strategy to Address Persistent Drivers of the HIV Epidemic in East Africa*

Project Goals: We aim to determine how to reduce HIV incidence to <0.1% using innovative strategies for HIV prevention and treatment to concurrently reach “persistent driver” populations with scalable interventions optimized and evaluated in two phases. In Phase A (years 1-2), we will conduct individually randomized controlled trials (RCTs) to optimize: 1) Dynamic Choice HIV Prevention with flexible Pre-exposure/post-exposure prophylaxis (PrEP/PEP); and, 2) Dynamic Choice HIV Treatment with individual and system care options and services tailored for youth, men, mobile populations, and heavy drinkers. In Phase B (years 3-5), we will test the hypothesis that a multi-sector intervention, offering dynamic choice of biomedical HIV prevention and treatment for persistent driver populations will increase viral suppression and prevention coverage and lead to a reduction in HIV incidence greater than standard of care.

2R01AI 074345-10 (MPIs: van der Laan, Petersen) 09/01/2020-11/30/2024

NIH-NIAID ADC $ $390,799

Role: Multiple Principal Investigator

*Targeted Learning using Adaptive Designs for HIV Epidemic Control in East Africa*

Project Goals: Develop and apply targeted machine learning to advance adaptive design and analytic approaches for epidemic control with aims of extending and applying methods for 1) adaptive surveillance and hotspot detection; 2) adaptive trial design based on discovery and response to treatment effect heterogeneity; 3) integrated surveillance and response designs.

R01AI151209-01A1 (PI Marquez) 11/16/2020-10/31/1025

NIH-NIAID Sub-contract ADC: $23,555

Role: Subcontract Principal Investigator

*Socio-spatial Networks and Tuberculosis Infection in Youth in Rural Uganda*

Project Goals: Using a combination of epidemiologic and network analytic techniques, this study

will address key foundational knowledge gaps about TB transmission within 3 socio-spatial

networks of youth: the household network, the non-household social network (close contacts),

and the network of casual contacts encountered in community venues.

P30AI027763 (MPIs Marquez, Chamie) 10/21/2020-8/31/2022

NIH-NIAID ADC $ $53,517

Role: Subcontract Principal Investigator

*Collaborative community networks to optimize implementation of low barrier COVID-19 testing efforts among diverse Latinx populations in Northern California.*

Project Goals: Evaluate implementation of the “Latino Task Force” model (LTF: collaborative working group of existing Latinx CBOs) to promote COVID-19 test and respond initiatives in two majority Latinx communities in Northern California with low COVID-19 testing access; Determine population-level prevalence of active (PCR+) SARS-CoV-2 infection, most at-risk subgroups, and attitudes and preferences regarding COVID-19 testing services, and evaluate the comparative effectiveness of innovative behavioral strategies to increase frequent retesting among most at-risk sub-groups within Latinx communities.

Research Gift, Novo Nordisk (MPIs: Petersen, van der Laan) 05/01/2020-04/30/2025

Role: Multiple Principal Investigator TC $3,200,000

*Joint Initiative for Causal Inference: UC Berkeley, University of Copenhagen, Novo Nordisk*

Project Goals: Improve the use of data for evidence generation in randomized and non-randomized trials. Expand the knowledge and practice of sound scientific inference anchored in the causal roadmap, and develop methodology that makes is easy to apply these methods rigorously.

NIH-NINR

R01 NR018801-01 (MPIs: Geng, Abuogi) 12/01/2019-11/30/2024

Role: co-Investigator Sub-contract TC: $39,753

*An Adaptive Strategy for Preventing and Treating Lapses of Retention in HIV Care for Adolescents.*

Project Goals: The study goal is to improve HIV engagement in care and treatment outcomes among adolescents and young adults through adaptive strategies in Africa.

R34 MH121224-01 (MPIs: Geng, Petersen) 07/01/2019-6/30/2022

NIH-NIMH ADC $201,000

*An Adaptive Strategy for Preventing and Treating Lapses of Retention in Adult HIV Care II*

(AdaPT-R II)

Role: Multiple Principal Investigator

Project Goals: To lay the technological, statistical, and implementation groundwork for a future R01 application by developing and testing a machine learning algorithm to assign personalized interventions to improve HIV retention and outcomes. Essentially advancing a novel “precision public health” approach to HIV treatment in Africa.

**RESEARCH SUPPORT - COMPLETED**

Philanthropic Gift (MPIs: Petersen, Reingold) 04/30/2020-04/30/2021

Role: Multiple Principal Investigator TC $800,000

*UC Berkeley COVID19 Safe Campus Initiative*

Project Goals: Develop and pilot an integrated data and adaptive surveillance system to support the UC Berkeley campus response to COVID19; evaluate prevalence and incidence of SARS-CoV-2 infection in a cohort of UC Berkeley students and workers.

City of San Francisco Department of Public Health (PI: Petersen) 04/01/2020-2/30/2021

Role: Principal Investigator TC $249,300

*Mathematical Modeling Support for COVID19 Response*

Project Goals: Develop, test and validate a local epidemic modeling tool for evaluation of current epidemic status, short term projections of hospital resource use, and simulation-based evaluation of future public health interventions.

UM1AI068636 (MPIs: Havlir, D.V., Kamya, M, Petersen, M) 12/1/18--11/30/2020

NIH- NIAID ADC $55,821

*ACTG: Sustainable Est Africa Research in Community Health (SEARCH)*

Role: Multiple Principal Investigator

Project Goals: The SEARCH study will quantify the health, economic and educational impact of a) early HIV diagnosis and immediate ART (antiretroviral therapy ) using a streamlined care delivery system in rural communities in East Africa (Phase i) and b) targeted Pre-Exposure Prophylaxis (PrEP), targeted HIV testing and targeted care interventions on top of universal treatment and streamlined care (Phase II). The study intervention is designed to improve the entire continuum of care, to reduce structural barriers for all populations including those most “at risk” and build upon evidence based prevention interventions.

F31AI140962-02 (PI Montoya) 2/6/2019 to 12/30/2020

NIH-NIAID TC $81,729

Ruth L. Kirschstein Predoctoral Individual National Research Service Award

*Personalized strategies for HIV treatment maintenance: an application of novel machine learning methods to HIV care in East Africa*

Role: Faculty PI/Primary mentor

Project Goals: Comparative evaluation of machine learning methods for estimation of optimal dynamic treatment regimes, and application to data generated from randomized controlled trials (RCTs) and sequential multiple assignment randomized trials (SMARTs) of behavioral interventions to support HIV care outcomes in East Africa.

R01 MH104123-01 (MPIs: Petersen, Geng) 07/14/2014-10/31/2019

NIH/NIMH ADC $506,925

Adaptive Strategies for Preventing & Treating Lapses of Retention in Care (AdaPT-R)

Role: Multiple Principal Investigators

Project Goals: (1) to assess the comparative effectiveness of interventions to prevent lapses in retention, (2) to assess the effectiveness of interventions to re-engage patients with early lapse in retention, and (3) to assess the effectiveness and cost-effectiveness of sequential prevention—reengagement strategies for retention.

U01AI099959 (PI: Havlir) 01/01/2014 – 07/31/2019

NIH/NIAID ADC $6,457,373

Sustainable East Africa Research on Community Health (SEARCH)

Role: co-Principal Investigator

Project Goals: Large cluster randomized trial to investigate broad HIV prevention, health and economic impacts of antiretroviral treatment at all CD4+ T cell counts in East Africa.

R01AI074345-06A1 (PI: van der Laan) 7/30/2014-6/30/2019

NIH/NIAID ADC $460,751

Causal Inference Methods for Implementation Science

Role: Co-Investigator

Project Goals: Develop general methods for evaluating the comparative effectiveness of alternative strategies for HIV prevention, treatment and care in real world settings, with a focus on patient responsive monitoring and treatment strategies (dynamic regimes), joint effects of cluster-level and individual-level interventions over multiple time points, accounting for the complex dependencies between individuals, and the impact of cluster-level interventions in settings where data are only available from one or a few clusters.

Award Number: 20162513 (PI: Walker) 01/01/2015-05/31/2016

Bill and Melinda Gates Foundation ADC $30,310

Title: Preterm Birth Initiative

Role: Co-Investigator

Project Goals: This project focuses on the relationships of exposures with the risk of preterm births and lower birth weight among full-term babies.

Role: Co-Investigator

U01AI069911 (MPIs: Wools-Kaloustian, Yiannoutsos) 8/1/2012-7/31/2016

NIH/NIAID Subcontract ADC $58,202

International epidemiological Databases to Evaluate AIDS in Eastern Africa (IeDEA-EA)

Role: Co-Investigator/Subaward Principal Investigator

Project Goals: Develop novel statistical methods for estimating the effects of non-randomized longitudinal joint clinic and individual-level interventions, and apply these methods to investigate the utility of a triaged care for stable patients with HIV infection in Africa.

Clinical Scientist Development Award (PI Petersen) 7/1/2011-7/30/2015

Doris Duke Charitable Foundation ADC $150,000

Mobile patient monitoring technology to improve patient outcomes in Sub-Saharan Africa: Evaluation of remote biosensors and wireless adherence monitors to detect early morbidity and treatment failure among HIV-infected patients in rural Uganda

Role: Principal Investigator

Project Goals: Improve outcomes among HIV-infected patients in rural Sub-Saharan Africa by applying machine learning methods to data generated with mobile monitoring technology.

U01AI069924 (PI: Egger) 8/1/2011-7/31/2015

NIH/NIAID Subcontract ADC $82,400

International epidemiological Databases to Evaluate AIDS in Southern Africa (IeDEA-SA)

Role: Co-investigator/Subaward Principal Investigator

Project Goals: Develop and apply novel statistical methods for addressing missing data and for estimating the impact of alternative antiretroviral monitoring strategies on patient outcomes using multi-cohort consortium data from Southern Africa.

Mentored Research Award (PI: Petersen) 1/31/2010-01/31/2012

UCSF Center for AIDS Research ADC $20,000

The Importance of Routine Viral Load Monitoring: The Effect of Delayed Regimen Modification Following Virologic Failure of First-Line Antiretroviral Treatment Among HIV-Infected Adults in Sub-Saharan Africa

Role: Principal Investigator

Project Goals: Use data from HIV cohorts in Africa to compare alternative antiretroviral monitoring strategies and improve understanding of the consequences of delayed regimen modification following virologic failure. Analyses will use dynamic marginal structural models to compare patient-responsive treatment strategies controlling for time-dependent confounding by indication.

Foundation grant (Bangsberg) 5/1/10-12/30/12

Mark and Lisa Schwartz Foundation ADC $20,000

Improving the Effectiveness of Antiretroviral Delivery Systems in Resource Limited Settings

Role: Subaward Principal Investigator

Project Goals: (1) understand how loss to follow up and incomplete outcome ascertainment threaten the validity of efforts to assess program effectiveness, (2) describe optimal follow up protocols that balance patient safety with resource demands and (3) define scalable, valid and global indicators of effectiveness to facilitate large scale monitoring and evaluation of global ART delivery.

U01AI069502 (Havlir) 05/01/2010-11/30/2012

NIH-NIAID Subcontract ADC $8,711

UCSF HIV Clinical Trials Unit

Role: Subaward Principal Investigator

Project Goals: To evaluate whether community-wide early antiretroviral treatment will diminish the size of TB, HIV and malaria epidemics, lessen maternal-child mortality and improve economic and education outcomes at a community level in Sub-Saharan Africa

P01 HD059454 (Havlir) 05/01/2010-07/31/2012

NIH/NICHD Subcontract ADC $8,322

Novel Strategies to Prevent Malaria and Improve HIV Outcomes in Africa

Role: Subaward Principal Investigator

Project Goals: To evaluate novel and strategic interventions to reduce the burden of malaria and improve HIV outcomes among children and pregnant women, the populations most affected by the overlap of these diseases. In particular, the project will evaluate the impact of antiretroviral treatment on both malaria and HIV outcomes in these populations.

**SOFTWARE**

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3. Schwab J, Petersen M. Local Epidemic Modeling for Management and Action (LEMMA) (2020). <https://localepi.github.io/LEMMA/>

**INIVITED COMMENTARIES AND BOOK CHAPTERS**

† denotes student first author

§ denotes post-doctoral mentee first author

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9. Geng E, Petersen M. Network meta-analyses: powerful but not without perils. *Lancet HIV* 2014. 1(3), e95–e96
10. Petersen, M. Applying a causal road map in settings with time-dependent confounding: Commentary on “The parametric G-formula for time-to-event data: toward intuition with a worked example.” *Epidemiology* 2014. 25(6):898-901
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**PEER-REVIEWED PUBLICATIONS**

† denotes student first author

§ denotes post-doctoral mentee first author

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