

Solis Winters

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EDUCATION

Ph.D., Health Policy, Population & Data Science track

Expected May 2025

University of California, Berkeley School of Public Health

Graduate Certificate in Applied Data Science

Dissertation Chair: Dr. Lia Fernald, Brian and Jennifer Maxwell Endowed Professor in Public Health

Committee Members: Dr. Sandra McCoy, Dr. Alan Hubbard, Dr. Susana Matias

B.S., Biostatistics and Public Health, *summa cum laude*

May 2018

Saint Louis University College for Public Health and Social Justice

Minors in Engineering Mathematics and Urban Poverty Studies

- Biostatistics Capstone: “The Black-White Disparities in Preterm Birth in St. Louis City and County”
- University Honors Program Capstone: “Understanding the Role of Social Support Among Low Food-Secure Adults in Missouri”

RESEARCH

Peer-Reviewed Journal Articles

1. Njau, P. F., **Winters, S.**, Katabaro, E., Sabasaba, A., Hassan, K., Joseph, B., Maila, H., Msasa, J., Fahey, C. A., Packel, L., Dow, W. H., Jewell, N. P., Ulenga, N., Mwenda, N., & McCoy, S. I. (2024). The impact of financial incentives on viral suppression among adults initiating HIV treatment in Tanzania: a hybrid effectiveness-implementation trial. *Lancet HIV*, 11(9), e586-e597. [10.1016/S2352-3018\(24\)00149-8](https://doi.org/10.1016/S2352-3018(24)00149-8)
2. Chitle, P., Sheira, L., Katabaro, E., **Winters, S.**, Njau, P., Sabasaba, A., & McCoy, S. (2024). The impact of financial incentives on mental health among adults in HIV care in Lake Zone, Tanzania. *AIDS*, 38(11), 1677-1685. [10.1097/QAD.0000000000003948](https://doi.org/10.1097/QAD.0000000000003948)
3. **Winters, S.**, Martinez, S., & Johannsen, J. (2024). Do improvements in infant and young child feeding (IYCF) practices endure the test of time? *Journal of Health, Population and Nutrition*, 43(1), 49. [10.1186/s41043-024-00507-5](https://doi.org/10.1186/s41043-024-00507-5).
4. **Winters, S.**, Pitchik, H., Akter, F., Yeasmin, F., Jahir, T., Nurul Huda, T.M., Rahman, M., Winch, P.J., Luby, S.B., & Fernald, L.C.H. (2023). How does women’s empowerment relate to antenatal care attendance? A cross-sectional analysis among rural women in Bangladesh. *BMC Pregnancy and Childbirth*, 23(1), 436. [10.1186/s12884-023-05737-9](https://doi.org/10.1186/s12884-023-05737-9)
5. **Winters, S.**, Sabasaba, A., Fahey, C.A., Packel, L., Katabaro, E., Ndugile, Y., Njau, P.F., & McCoy, S.I. (2023). Increased prevalence of depression and anxiety among adults initiating antiretroviral therapy during the COVID-19 pandemic in Tanzania. *AIDS Research and Therapy*, 20(1), 36. [10.1186/s12981-023-00534-y](https://doi.org/10.1186/s12981-023-00534-y)
6. Martinez, S., Murguia, J. M., Rejas, B., & **Winters, S.** (2021). Refrigeration and child growth: What is the connection? *Maternal and Child Nutrition*, 17(2), e13083. [10.1111/mcn.13083](https://doi.org/10.1111/mcn.13083)
7. Acevedo. P., Martinez, S., Pinzon, L., Sanchez-Monin, E., & **Winters, S.** (2020). Distance as a barrier to obstetric care among indigenous women in Panama: a cross-sectional study. *BMJ Open*, 10(3), e034763. [10.1136/bmjopen-2019-034763](https://doi.org/10.1136/bmjopen-2019-034763)

8. Gonzalez Acero, C., Martinez, S., Pérez Expósito, A., & **Winters, S.** (2020). Effect of an innovative behavioural change strategy and small-quantity lipid-based nutrient supplements on stunting and obesity in children in Baja Verapaz, Guatemala: protocol for a randomised control trial. *BMJ Open*, 10(7), e035528. [10.1136/bmjopen-2019-035528](https://doi.org/10.1136/bmjopen-2019-035528)

Manuscripts Under Review or In Preparation

9. Gonzalez Acero, C., Martinez, S., Pérez Expósito, A., & **Winters, S.** Effect of an innovative behavioral change strategy coupled with small-quantity lipid-based nutrient supplements on stunting and obesity in children in Baja Verapaz, Guatemala: results from a randomized control trial. Under review.

10. Tucker, S., **Winters, S.**, Katabaro, E., Mlowe, M., Bradshaw, P., Ahern, J., Packel, L., Hillis, S., Sabasaba, A., Njau, P., & McCoy, S. Adverse childhood experiences and disengagement from HIV care: A case-cohort study in Tanzania. Under review.

11. Hémono, R., Katabaro, E., Joseph, B., Maila, H., Msasa, J., Hassan, K., **Winters, S.**, Prata, N., Dow, W., Njau, P., Sabasaba, A., & McCoy, S. Impact of financial incentives on intimate partner violence for women living with HIV initiating antiretroviral therapy. Under review.

12. Katabaro, E., Joseph, B., Mwenda, N., Bhattarai, P., Msasa, J., Mnyippembe, A., Maila, H., Hassan, K., Kunesh, J., Sabasaba, A., **Winters, S.**, Njau, P., Hémono, R., McCoy, S., & Packel, L. Scaling-up a mHealth system to deliver financial incentives to improve adherence to antiretroviral therapy in Tanzania: results from an implementation science study. Under review.

13. **Winters, S.**, Matias, S., Hubbard, A., & Fernald, L. Small-quantity lipid-based nutrient supplements are no better at improving early child growth trajectories than micronutrient powders: Evidence from a cluster-randomized controlled trial. In preparation.

14. **Winters, S.**, Katabaro, E., Hassan, K., Joseph, B., Maila, H., Msasa, J., Sabasaba, A., Packel, L., Njau, P. F., Dow, W. H., & McCoy, S. I. How do repeated financial incentives affect healthcare-seeking behaviors over time? Evidence from a cluster-randomized controlled trial. In preparation.

15. Fahey, C., Njau, P., Sabasaba, A., Msasa, J., Mnyippembe, A., Mwenda, N., **Winters, S.**, McCoy, S. and Maokola, W. Socioeconomic support to improve completion of tuberculosis preventive therapy among adults initiating HIV treatment in Tanzania: a quasi-cluster randomized trial. In preparation.

Reports

Gonzalez Acero, C., Martinez, S., Pérez Expósito, A., & **Winters, S.** (2019). SPOON: Programa continuo para mejorar la nutrición: Resultados de la encuesta de línea base en Baja Verapaz, Guatemala. IDB Technical Note No. 1806. Inter-American Development Bank, Washington, DC.

Conference Presentations

Winters, S., Matias, S., Hubbard, A., & Fernald, L. (2024, June 18-21). *Effects of small-quantity lipid-based nutrient supplements on early child growth trajectories compared to micronutrient powders* [Poster presentation]. SER 2024, Austin, TX, USA.

Njau, P. F., Katabaro, E., **Winters, S.**, Sabasaba, A., Hassan, K., Joseph, B., Maila, H., Msasa, J., Fahey, C. A., Packel, L., Dow, W. H., Jewell, N. P., Ulenga, N., Mwenda, N., & McCoy, S. I. (2024, July 22-26). *The Impact of Financial Incentives on Viral Suppression Among Adults Initiating HIV Treatment in Tanzania: A Hybrid Effectiveness-Implementation Trial* [Poster presentation by co-author]. AIDS 2024, Munich, Germany.

Katabaro, E., Mnyippembe, A., Joseph, B., Maila, H., Msasa, J., Hassan, K., Mwenda, N., Bhattarai, P. R., Kunesh, J., **Winters, S.**, Sabasaba, A., Njau, P., Packel, L., & McCoy, S. (2023, December 4-9). *Fidelity and*

acceptability of an mHealth and financial incentive intervention to assess scalability [Poster presentation by co-author]. ICASA 2023, Harare, Zimbabwe.

Njau, P. F., Katararo, E., **Winters, S.**, Sabasaba, A., Hassan, K., Joseph, B., Maila, H., Msasa, J., Fahey, C. A., Packel, L., Dow, W. H., Jewell, N. P., Ulenga, N., Mwenda, N., & McCoy, S. I. (2023, December 4-9). *The impact of financial incentives on viral suppression among adults starting HIV treatment in Tanzania: a cluster randomized controlled trial* [Oral presentation by co-author]. ICASA 2023, Harare, Zimbabwe.

Tucker, S., Katararo, E., Mlowe, M., **Winters, S.**, Hillis, S., Bradshaw, P., Packel, L., Njau, P., Sabasaba, A., & McCoy, S. I. (2023, December 4-9). *Adverse Childhood Experiences (ACEs) and Disengagement from HIV Care: A Case-Cohort Study in Tanzania* [Poster presentation by co-author]. ICASA 2023, Harare, Zimbabwe.

Sabasaba, A., **Winters, S.**, Fahey, C.A., Njau, P.F., Katararo, E., Ndungile, Y., Packel, L., & McCoy, S.I. (2022, July 29 - August 2). *Increased prevalence of depression and anxiety among adults initiating antiretroviral therapy during the COVID-19 pandemic in Tanzania* [Poster presentation by co-author]. AIDS 2022, Montreal, Canada.

Hémono, R., **Winters, S.**, Katararo, E., Mnyippembe, A., Njau, P., Sabasaba, A., & McCoy, S. (2022, July 29 - August 2). *Changes in intimate partner violence among WLHIV in Tanzania before and during COVID-19* [Poster presentation by co-author]. AIDS 2022, Montreal, Canada.

Chitle, P., **Winters, S.**, Fahey, C.A., Packel, L., McCoy, S.I., Katararo, E., & Sabasaba, A. (2022, July 29 - August 2). *Perceived social status and retention in care after antiretroviral therapy initiation in Tanzania* [Poster presentation by co-author]. AIDS 2022, Montreal, Canada.

PROFESSIONAL RESEARCH EXPERIENCE

Graduate Student Researcher 2024-Present

University of California, Berkeley School of Public Health

- Support data management and analysis (using REDCap, Stata, and R) for two randomized trials evaluating the effectiveness of cash incentives for supporting out-of-care people living with HIV and in-care people living with HIV who are predicted through machine learning to be at risk for disengaging from care in Tanzania. *PI: Dr. Sandra McCoy, Professor*

Project Coordinator 2021-2024

University of California, Berkeley School of Public Health

- Led data management, monitoring, and statistical analysis (using R) for a cluster randomized control trial to test whether cash incentives can improve treatment adherence and viral suppression among people living with HIV in Tanzania. Co-authored 3 papers. *PI: Dr. Sandra McCoy, Professor*

Research Consultant 2022-2023

International Initiative for Impact Evaluation (3ie)

- Conducted statistical analysis (using Stata) for the impact evaluation of a nutrition cluster-randomized trial in Baja Verapaz, Guatemala and supported development of a manuscript. *Supervisor: Dr. Sebastian Martinez, Director of Evaluation*

Graduate Student Researcher 2023

University of California, San Francisco School of Nursing

- Wrote, updated, and revised R Markdown code to generate monthly, tailored reports based on customer feedback data for drug shop owners enrolled in a randomized controlled trial in Tanzania. *PI: Dr. Jenny Liu, Professor*

- Research Consultant** 2020
International Initiative for Impact Evaluation (3ie)
- Synthesized evidence around key questions for policymakers in the Philippines as they prepared to respond to challenges posed by COVID-19. *Supervisor: Stuti Tripathi, Senior Evaluation Specialist*
- Research Assistant** 2018-2020
Inter-American Development Bank, Office of Strategic Planning and Development Effectiveness
- Provided technical support (using Stata and QGIS) for impact evaluations and research in maternal and child health and nutrition. *Supervisor: Dr. Sebastian Martinez, Principal Economist*
- Undergraduate Research Assistant** 2018
Saint Louis University College for Public Health and Social Justice
- Interviewed parents for a qualitative research study to understand the relationship between sleep habits and health among young children in St. Louis. *Supervisor: Dr. Jen Jen Chang, Professor*
- Undergraduate Trainee** 2017
Big Data Summer Institute, University of Michigan School of Public Health
- Participated in an interdisciplinary training and research program to introduce undergraduate students to big data and biostatistics (National Institutes of Health, BD2K R25 Courses and Skills grant R25EB022363).
- Undergraduate Research Assistant** 2015
American Institutes for Research
- Assisted in the evaluation of Plantwise Kenya, a project focused on improving plant health in Kenya by training extension agents and expanding farmer access to plant health information. *Supervisor: Dr. Juan Bonilla, Managing Economist*

TEACHING

- Epidemiologic Methods I (PH 250A)** Fall 2024
Graduate Teaching Assistant for Dr. Sandra McCoy
University of California, Berkeley, School of Public Health
- Graduate course (ongoing), 153 students.
 - Responsibilities include leading a weekly two-hour lab section of 40 students, covering topics such as measures of disease frequency and association, study designs (randomized controlled trials, cohort, case-control, cross-sectional and ecological), screening, confounding and other types of bias, and causal inference; developing exam questions; grading assignments; holding office hours; and responding to questions posted on Ed Discussion.
- Practicum in MCH Data Analysis II (PH 210F)** Spring 2024
Graduate Teaching Assistant for Dr. Kim Harley
University of California, Berkeley, School of Public Health
- Graduate course, 15 students, 7 out of 7 for instructor effectiveness.
 - Responsibilities included teaching three lectures covering multivariable linear and logistic regression models and effect measure modification in R; providing one-on-one support with data cleaning and analysis for Master of Public Health (MPH) students completing their capstone projects; and holding office hours.
- Public Health Aspects of Maternal and Child Nutrition (PH 207A)** Fall 2022
Graduate Student Instructor for Dr. Lia Fernald
University of California, Berkeley, School of Public Health

- Graduate course, 28 students, 6.5 out of 7 for instructor effectiveness.
- Responsibilities included teaching a lecture on birth outcomes and causes of growth restriction; connecting students with community organizations to complete their community engagement project; assisting with classroom activities; grading assignments; holding office hours; and responding to questions posted on Ed Discussion.

Nutrition in Developing Countries (PH 118)

Summer 2021

Graduate Student Instructor for Dr. Sarah Zyba

University of California, Berkeley, School of Public Health

- Undergraduate course, 26 students, 6.27 out of 7 for instructor effectiveness.
- Responsibilities included teaching a lecture on the double burden of malnutrition; assisting with classroom activities; grading assignments; holding office hours; and responding to questions posted on Piazza.

FELLOWSHIPS, HONORS, AND AWARDS

Interdisciplinary Training in Demography, NIH NICD T32 Fellowship	2022-2023
Computational Social Science Training Program, NIH T32 Fellowship	2021-2022
Biomedical Big Data Training Program, NIH T32 Fellowship	2020-2021
Outstanding Bachelor of Science in Biostatistics Graduating Senior Award	2018
Saint Louis University Honors Program	2014-2018

UNIVERSITY SERVICE

Health Policy Social Chair <i>University of California, Berkeley, School of Public Health</i>	2022-2023
Health Policy Executive Committee <i>University of California, Berkeley, School of Public Health</i>	2021-2022
Health Policy Graduate Admissions Committee <i>University of California, Berkeley, School of Public Health</i>	2020-2021
Berkeley Economists for Equity Mentorship Program with DeAnza High School <i>University of California, Berkeley</i>	2021

SKILLS

Languages

- English (native fluency)
- Spanish (heritage speaker; professional proficiency)

Statistical Programs

- R/RStudio/R Markdown, Stata, QGIS (professional proficiency)
- Python, ArcGIS, SAS, SPSS (elementary proficiency)