

# Solis Winters

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## EDUCATION

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### 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

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### Peer-Reviewed Journal Articles

1. Gonzalez Acero, C., Martinez, S., Pérez Expósito, A., & **Winters, S.** (2025). 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. *Maternal & Child Nutrition*. [10.1111/mcn.13802](https://doi.org/10.1111/mcn.13802)
2. Hémono, R., Katabaro, E., Joseph, B., Maila, H., Msasa, J., Hassan, K., **Winters, S.**, Prata, N., Dow, W., Njau, P., Sabasaba, A., & McCoy, S. (2025). Impact of financial incentives on intimate partner violence for women living with HIV initiating antiretroviral therapy. *AIDS Behavior*. [10.1007/s10461-025-04621-1](https://doi.org/10.1007/s10461-025-04621-1)
3. 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)
4. 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)
5. **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).
6. **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)
7. **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)

8. 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)
9. 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)
10. 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***

11. 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.
12. Katabaro, E., Joseph, B., Mwenda, N., Bhattarai, P., Msasa, J., Mnyippembe, A., Maila, H., Hassan, K., Kuneshe, 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.**, 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 HIV care-seeking behaviors over time? Evidence from a cluster-randomized controlled trial. Under review.
14. Sheira, L., Mlowe, M., Katabaro, E., Joseph, B., Msasa, J., Hassan, K., Maila, H., **Winters, S.**, Sabasaba, A., Njau, P., & McCoy, S. Missed opportunities for PrEP care linkage among the partners of people newly initiated in HIV care in Western Tanzania. Under review.
15. **Winters, S.**, Matias, S., Hubbard, A., Gonzalez Acero, C., Pérez Expósito, A., Martinez, S., & 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.
16. Kadota, J., Mlowe, M., **Winters, S.**, Hémono, R., Maila, H., Joseph, B., Hu, J., Ulenga, N., Mwenda, N., Njau, P. F., Dow, W. H., Wang, J., Sabasaba, A., & McCoy, S. I. Can financial support enhance the effectiveness of community-based tracing to re-engage people who have disengaged from HIV care? *Rudi Kundini*: a cluster randomized trial in Tanzania. In preparation.
17. Fahey, C., Njau, P., Sabasaba, A., Msasa, J., Mnyippembe, A., Mwenda, N., **Winters, S.**, McCoy, S., & 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.**, Katabaro, E., Hassan, K., Joseph, B., Maila, H., Msasa, J., Sabasaba, A., Packel, L., Njau, P. F., Dow, W. H., & McCoy, S. I. (2025, March 9-12). *How do repeated financial incentives affect healthcare-seeking behaviors over time?* [Oral presentation]. CROI 2025, San Francisco, CA, USA.

**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., Kuneshe, 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., 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. (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., Katabaro, 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., Katabaro, 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.,** Katabaro, 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., Katabaro, 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

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**Graduate Student Researcher** 2024-2025  
*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 & Graduate Student Researcher** 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**

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#### **Practicum in MCH Data Analysis II (PH 210F)**

Spring 2024, 2025

*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 (Spring 2024)
- 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.

#### **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.

#### **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**

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Outstanding Graduate Student Instructor Award	2025
Schwartz Efrusy Levy Fellowship	2024-2025
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**

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

### **SKILLS**

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**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)

**Survey Software**

- Qualtrics, REDCap (professional proficiency)