

DANIELLE N. POOLE

Neukom Institute for Computational Science
Department of Epidemiology
Department of Geography
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1. EDUCATION

Sc.D. Global Health and Population May, 2019
Harvard T.H. Chan School of Public Health
Harvard University

- Dissertation: Measuring the gap in forced migrant health: spatial, social, and structural determinants of morbidity and mortality in transit
- Advisors: Till Bärnighausen, Marcia Castro, Bethany Hedt-Gauthier, Stéphane Verguet
- Minors: Biostatistics and Epidemiology

M.P.H. Global Health 2012
Brown University School of Public Health
Brown University

- Thesis: Intervention acceptability and feasibility in sub-Saharan Africa: a pilot psychosocial intervention addressing mental health morbidities amongst South African orphans and vulnerable children
- Advisors: Caroline Kuo, Mark Lurie, Don Operario

B.A. (Hon) Fine Art Photography 2008
Seattle University

- Thesis: Refugee resettlement
- Advisor: Claire Garoutte

2. EMPLOYMENT

Postdoctoral Fellow 2019 – Present
Neukom Institute for Computational Science
Department of Epidemiology
Department of Geography
Dartmouth College

Predictive Analytics Fellow 2019
United Nations Centre for Humanitarian Data

Graduate Student Researcher 2014 – 2019
Harvard T.H. Chan School of Public Health, Boston MA

Project Director 2013 – 2014
The Miriam Hospital Immunology Center

Research Coordinator University of Washington	2012 – 2013
Graduate Student Intern World Health Organization	2011
Research Assistant Institute for Immunology & Informatics	2010 – 2012
Research Assistant Ragon Institute of MGH, MIT & Harvard	2009 – 2010

3. PUBLICATIONS

A. REFEREED JOURNAL ARTICLES

- 1) **Poole DN**, Liao S, Larson E, Hedt-Gauthier B, Raymond N, Bärnighausen T, Smith-Fawzi M. Sequential screening for depression in humanitarian emergencies: a validation study of the Patient Health Questionnaire among Syrian refugees. *Annals of General Psychiatry*, 2020; 19: 5.
- 2) **Poole DN**, Liao S, Larson E, Hedt-Gauthier B, Raymond N, Bärnighausen T. Implementation of a sequential screening process for depression in humanitarian crises: a validation study of the Patient Health Questionnaire in Syrian refugees. *Lancet Global Health*. *The Lancet Global Health*, 2019; 7: S42.
- 3) Sharma J, **Poole DN**. Gender bias in publishing. *The Lancet*, 2018; 392: 10157.
- 4) **Poole DN**, Hedt-Gauthier B, Liao S, Raymond N, Bärnighausen T. Major depressive disorder prevalence and risk factors among Syrian asylum seekers in Greece. *BMC Public Health* 2018; **18**: 908.
- 5) Scarnecchia DP, Raymond NA, Greenwood F, Howarth C, **Poole DN**. A Rights-based approach to information in humanitarian assistance. *PLOS Currents Disasters*. 2017 Sep 20. Edition 1.
- 6) **Poole DN**, Hedt-Gauthier B, Raymond N, Bärnighausen T. Major depression prevalence among Syrian migrants seeking asylum in Greece: a cross-sectional survey. *The Lancet Global Health*, 2018; 6: S20.
- 7) Wamuti BM, Erdman LK, Cherutich P, Golden M, Dunbar M, Bukusi D, Richardson B, Ng'ang'a A, Barnabas R, Mutiti PM, Jerop M, Otieno FA, **Poole DN**, Farquhar C. Assisted partner notification services to augment HIV testing and linkage to care in Kenya: study protocol for a cluster randomized trial. *Implementation Science* 2015; 10:23.
- 8) Chan PA, Maher J, **Poole DN**, Alexander-Scott N, Ducharme RB, Yates G, Benben S, Nunn A, Comella J, Bandy U, Montague BT, Kojic E, Chapin K, Flanigan TP. Addressing the increasing burden of sexually transmitted infections Rhode Island. *Rhode Island Journal of Medicine* 2013; 98(1).

- 9) **Poole DN**, McClelland RS. Global epidemiology of *Trichomonas vaginalis*. *Sex Transm Infect* 2014; 90(1):75.
- 10) **Poole DN**, Tracy JK, Levitz L, Rochas M, Sangare K, Yekta S, Tounkara K, Aboubacar B, Koita O, Lurie M, De Groot AS. A cross-sectional study to assess HPV knowledge and HPV vaccine acceptability in Mali. *PLoS ONE* 2013; 8(2): e56402.
- 11) Julg B#, **Poole DN**#, Ghebremichael M#, Castilla C, Altfeld M, Sunpath H, Murphy R, Walker BD. Factors predicting discordant virological and immunological responses to antiretroviral therapy in HIV-1 Clade C infected Zulu/Xhosa in South Africa. *PLoS One* 2012; 7: e31161.
- 12) Mureithi MW, **Poole DN**, Naranbhai V, Reddy S, Mkhwanazi NP, Sibeko S, Werner L, Abdool Karim Q, Abdool Karim S, Ndung'u T, Altfeld M; CAPRISA004 Trial Group. Preservation of HIV-1-specific IFN γ + CD4+ T-cell responses in breakthrough infections after exposure to tenofovir gel in the CAPRISA 004 microbicide trial. *J Acquir Immune Defic Syndr* 2012; 60: 124-127.
- 13) Jost S, Reardon J, Peterson E, **Poole DN**, Bosch R, Alter G, Altfeld M. Expansion of 2B4+ natural killer (NK) cells and decrease in NKp46+ cells in response to influenza. *Immunology* 2011; 132: 516-526.
- 14) Mureithi MW, Cohen K, Moodley R, **Poole DN**, Mncube Z, Kasmar A, Moody DB, Goulder PJ, Walker BD, Altfeld M, Ndung'u T. Impairment of CD1d-restricted natural killer T cells in chronic HIV type 1 clade C infection. *AIDS Res Hum Retroviruses* 2011; 27: 501-509

B. WORK UNDER REVIEW

- 15) **Poole DN**, Raymond N, Berens J, Latonero M, Ricard J, Hedt-Gauthier B. A combination sampling approach for epidemiologic research in humanitarian settings: a case analysis of a study of depression prevalence among refugees in Greece. (*BMC Public Health*).
- 16) **Poole DN**, Hedt-Gauthier B, Bärnighausen T, Castro M. Promise of safe passage: a spatial analysis of forced migrant mortality. (*Health and Place*).
- 17) Rapoport L, **Poole DN**, Kazanas K, Mourtzaki M, Bump J. Distal determinants of mental health conditions for asylum-seeking children in Greece: a health system enhancement study. (*Health Policy*).
- 18) Blain M, Richardson B, Kinuthia J, **Poole DN**, Jaoko W, Wilson KS, Kaggiah A, Simoni J, Farquhar C, McClelland RS. Psychosocial factors, condomless sex, and detectable viral load in HIV-positive women in serodiscordant couples in Nairobi, Kenya. (*AIDS and Behavior*).

C. ORAL ABSTRACT PRESENTATIONS

- 1) **Poole DN**, Liao S, Larson E, Hedt-Gauthier B, Raymond N, Bärnighausen T. Implementation of a two-step screening procedure for depression in humanitarian crises. 9th Annual Consortium of Universities for Global Health Conference. March, 2019, Chicago, IL USA.
- 2) **Poole DN**, Hedt-Gauthier B, Raymond N, Bärnighausen T. Major depression prevalence among Syrian migrants seeking asylum in Greece. 8th Annual Consortium of Universities for Global Health Conference. March, 2018, New York, NY USA.
- 3) **Poole DN**, Latonero M, Ricard J. Technology and migration. International Data Responsibility Group Conference. March, 2017, The Hague, Netherlands.
- 4) **Poole DN**, Tracy K, Levitz L, Yekta S, Kossow E, Huang T, Rochas M, Sangare K, Tounkara K, Aboubacar B, Koita O, Siby Diallo F, Sow S, Teguede I, Dolo A, Bougoudogo F, Lurie M, De Groot AS. Knowledge/attitudes/practices of HPV & cervical cancer and willingness to participate in vaccine trials in preparation for HIV & HPV vaccine trials in Mali. AIDS Vaccine 2012. September, 2012, Boston, MA USA.
- 5) **Poole DN**. A pilot intervention to reduce mental health morbidities amongst South African orphans and vulnerable children. Global Health & Innovation Conference. April, 2011, New Haven, CT USA.

D. POSTER ABSTRACT PRESENTATIONS

- 6) Rapoport L, **Poole DN**, Kazanas K, Mourtzaki M, Bump J. Distal Determinants of Mental Health Conditions (MHC) for Asylum-Seeking Children in Greece: A Health System Enhancement Study. American Public Health Association's 2019 Annual Meeting & Expo. November, 2019, Philadelphia, PA USA.
- 7) **Poole DN**, Liao S, Raymond N, Zaqqot O, Bärnighausen T. A nested screening procedure for depression in crises. 5th Annual State of Global Health Symposium. April, 2018, Boston, MA USA.

E. INVITED LECTURES

- 1) **Poole DN**. "Spatial-temporal trends in forced migrant mortality." Postdoc Research Day 2020, Dartmouth College. Hanover, NH USA. January 17th, 2020.
- 2) **Poole DN**. "Critical data for forced migrant mortality." Geography Workshop Series 2019. Department of Geography, Dartmouth College. Hanover, NH USA. November 25th, 2019.
- 3) **Poole DN**. "Statistical and political power: health innovation for promoting women's empowerment." Using Research to Advance International Development: Women's Empowerment as a Case Study. United States Agency for International Development. Washington D.C., USA. December 11th, 2019.
- 4) **Poole DN**. "Refugee healthcare in host countries: focus on MENA." Migration Health in Crises Symposium. Georgetown University. Washington D.C., USA. November 19th, 2019.

- 5) **Poole DN.** “Data collection and human rights.” Technology and Human Rights Symposium. National Academy of Sciences Committee on Human Rights. Washington D.C., USA. September 18th, 2019.
- 6) **Poole DN.** “Takeaways and next steps.” Leiden University’s Data Responsibility Exchange. The Hague, The Netherlands. June 27th, 2019.
- 7) **Poole DN.** “Development in the digital age: mobile money, big data, and new strategies for international cooperation.” German American Conference, Harvard University. Boston, MA USA. October 6th, 2018.
- 8) **Poole DN.** “Refugee Connectivity: The relationship between mobile phones and wellbeing among Syrian refugees in Greece.” François-Xavier Bagnoud Center for Health and Human Rights, Harvard T.H. Chan School of Public Health. Boston, MA USA. May 9th, 2018.
- 9) **Poole DN.** “Responsible global health.” Global Health and Leadership Conference, Harvard University. Boston, MA USA. April 29th, 2018.
- 10) **Poole DN.** “Major depression prevalence and the feasibility of mHealth interventions among Syrian asylum seekers in Greece.” Weatherhead Center for International Affairs Gender Inequality Workshop, Harvard University. Boston, MA USA. February 21st, 2018.
- 11) **Poole DN.** “Digital technology: opportunities and risks of ICT use in crises.” National Academy of Sciences Committee on Human Rights Symposium. Washington D.C., USA. December 7th, 2017.
- 12) **Poole DN.** “Depression among Syrian Refugees in Greece: a case study on designing research for policy.” HS 303f The Heller School for Social Policy and Management, Brandeis University (Disaster Management and Risk Reduction). May 4th, 2017.
- 13) **Poole DN.** “The mental health of Syrian refugees.” Heidelberg University. Heidelberg, Germany. March 6th, 2017.
- 14) **Poole DN.** “Asking the right questions: survey development.” Harvard T.H. Chan School of Public Health GHP 562 (Program Monitoring and Evaluation). April 25th, 2016.
- 15) **Poole DN.** Women’s lifecourse events and HIV transmission potential: a multidisciplinary study. STD/AIDS Collaborative Research Group Annual Review Meeting. Nairobi, Kenya. January 22nd, 2013.

F. PROFESSIONAL PUBLICATIONS

- 1) Latonero M#, **Poole DN**#. Refugee Connectivity. Report, Harvard Humanitarian Initiative. 2017.
- 2) Greenwood F, Howarth C, **Poole DN**, Raymond NA, Scarnecchia D. The Signal Code: A Human Rights Approach to Information During Crises. Harvard Humanitarian Initiative. 2016.

G. MEDIA

- 1) Global Mental Health Impact Story of the Week, Global Mental Health at Harvard Newsletter (25 March 2019).
- 2) Nakkazi E, “HIV vaccine trials struggle to enroll women,” Nature News & Comment (12 September 2013).

4. RESEARCH GRANTS

A. GRANTS CURRENTLY HELD

Applying spatial epidemiology to identify hotspots of HIV transmission in rural South Africa

Role on Project: Principal Investigator

\$45,650

Dates: 1 July 2019 – June 30, 2021

Funder: National Institutes of Health – National Institute of Allergy and Infectious Diseases

Project Identifier: APKP6706

Description: There is a fundamental gap in understanding the differences between the effects expected from evidence-based HIV prevention interventions and real-world results. The lack of empirical data describing heterogeneity within generalized epidemics, such as the political, spatial, and temporal dynamics of incidence and variance in the local risk environment, including social (the composition of individual-level) and structural (context place-level) HIV risk factors, may hinder the effectiveness of prevention efforts. The long-term goal of this research is to target HIV prevention responsive to variance in the risk environment by characterizing hotspots of HIV incidence in the generalized South African epidemic.

B. COMPLETED GRANTS

Studying the effects of WiFi provision & mobile connectivity on the wellbeing of displaced populations

Role on Project: Student Principal Investigator

\$118,360

Dates: January 1 – December 31, 2019

Funder: Mercy Corps

Project Identifier: HQ18NF019

Description: The proposed research seeks to explore the effects of WiFi provision and mobile connectivity on the safety, security, health, and psychosocial well-being of crisis-affected populations. This project aims to develop an in-depth understanding of the effects of information communication technology in urban and camp settings.

A pilot study on the relationships between mobile phones, food security, and psychological health among displaced populations

Role on Project: Student Principal Investigator

\$50,000

Dates: January 1 – June 30, 2018

Funder: World Food Programme

Project Identifier: HQ18NF019/P04800282554

Description: This study piloted a survey instrument designed to identify associations between access to mobile phones, food security status, and psychosocial well-being indicators amongst displaced populations.

Technology and Migration

Role on Project: Principal Investigator

Research Expenses

Dates: September 1, 2018 – March 1, 2019

Funder: International Data Responsibility Group

Project Identifier: N/A

Description: The objectives of this study were to 1) understand the demographic and socioeconomic predictors of mobile phone ownership, access, and usage among Syrian refugees, 2) describe the relationships between mobile phone use and mental health outcomes, and 3) explore the relationship between mobile phone use and access to information.

5. MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS & SOCIETIES

- 1) International Organization for Migration – Migration Health and Development Research Initiative (2019 – Present)
- 2) Sigma Xi (2019 – Present)
- 3) American Association of Geographers (2019 – Present)
- 4) Society for Implementation Research Collaboration (2018 – Present)
- 5) Consortium of Universities in Global Health (2017 – Present)
- 6) American Psychological Association (2015 – Present)

6. PROFESSIONAL CERTIFICATIONS

- 1) Basic Security in the Field II, United Nations Department of Safety and Security
- 2) Building a Better Response, Humanitarian Academy at Harvard

7. SERVICE

A. UNIVERSITY OR DEPARTMENTAL

- 1) President, Harvard Chan Student Humanitarian Research Society (2017 – 2018)
- 2) Moderator, Voices in Leadership, Harvard T.H. Chan School of Public Health (2016 – 2017)

3) Member, Curriculum Committee, School of Public Health, Brown University (2010 – 2012)

B. EDITORIAL

- Editor-in-Chief: Harvard Public Health Review 2017 – 2018
- Editorial Assistant: Health Systems & Reform 2016 – 2017
- Editor: American Journal Experts 2014 – 2017
- Editorial Assistant: Trauma Psychology News 2016

B. JOURNAL REVIEW

- AIDS CARE 2013
- BMJ Open 2017
- Eastern Mediterranean Health Journal 2019, 2020
- International Journal of STD and AIDS 2015, 2019
- PLoS ONE 2013, 2018
- Psychology, Health & Medicine 2015
- Sexually Transmitted Infections 2014, 2018
- Social Inclusion 2018
- Social Science & Medicine 2019
- Tropical Medicine & International Health 2018
- Vaccine 2014

C. GRANT REVIEW

- Ad Hoc Reviewer, National Research Foundation of South Africa (2015 – Present).
- Committee Member, Health Care Innovation Award, Center for Medicare & Medicaid Innovation (2013).

D. CONFERENCES

- Abstract Reviewer** 2019
- 10th Annual Consortium of Universities for Global Health Conference

E. COMMUNITY

- USAID Research Technical Assistance Center Network** 2020
- Member
- American Association for the Advancement of Science** 2019 – Present
- Scientist, SciLine
- Estimates of Stateless Populations** 2019 – Present
- Expert Group Member, United Nations High Commissioner for Refugees

State Technical Advisory Team	2019 – Present
<ul style="list-style-type: none"> • Advisor, Consortium of Universities for Global Health 	
Network of Academic Advisors	2019 – Present
<ul style="list-style-type: none"> • Advisor, Consortium of Universities for Global Health 	
PHI/CDC Global Health Fellowship Program	2019 – Present
<ul style="list-style-type: none"> • Application Reviewer, Consortium of Universities for Global Health 	
Commonwealth Land Trust	2018 – 2020
<ul style="list-style-type: none"> • Board Member, Board of Directors 	
MSM Community Advisory Board, Brown University	2014
<ul style="list-style-type: none"> • Member, Community Advisory Board 	

8. AWARDS AND ACHIEVEMENTS

Classroom Enhancement Award, Dartmouth College	2020
<ul style="list-style-type: none"> • Awarded \$1,150 by the Ethics Institute to host guest lecturers in my course. 	
Global Health and Leadership Conference Award, Harvard College	2020
<ul style="list-style-type: none"> • Awarded by the Global Health and Leadership Conference for leadership in Refugee and Migrant Health. 	
Advancing Health Research in Humanitarian Crisis Case Studies, NIH	2019
<ul style="list-style-type: none"> • Awarded \$4,500 to prepare a manuscript for the NIH Fogarty International Center. 	
Faculty International Conference Travel, Dartmouth College	2019
<ul style="list-style-type: none"> • Awarded \$600 for conference travel. 	
Foreign Language & Area Studies Fellowship, Harvard University	2017 – 2018
<ul style="list-style-type: none"> • Awarded \$33,000 to study isiZulu (<i>declined</i>). 	
Weatherhead Center for International Affairs, Harvard University	2017
<ul style="list-style-type: none"> • Awarded \$13,000 for training in gender inequalities. 	
Global Health and Population Conference Travel Award, Harvard University	2017
<ul style="list-style-type: none"> • Awarded \$1,000 to present at a conference. 	
Foreign Language & Area Studies Fellowship, Harvard University	2016 – 2017
<ul style="list-style-type: none"> • Awarded \$33,000 to study isiZulu. 	
Nominated Changemaker, White House State of Women Summit	2016
<ul style="list-style-type: none"> • Nominated through public submissions to attend the White House United State of Women Summit. 	

Fellow, Program on Humanitarian Leadership, Harvard University	2016
<ul style="list-style-type: none"> • Awarded to exceptional humanitarian professionals. 	
Michael von Clemm Research Travel Award, Harvard University	2016
<ul style="list-style-type: none"> • Awarded partial funding for a research project. 	
Michael von Clemm Research Travel Award, Harvard University	2015
<ul style="list-style-type: none"> • Awarded partial funding for a research project. 	
Foreign Language & Area Studies Fellowship, Harvard University	2014 – 2015
<ul style="list-style-type: none"> • Awarded \$33,000 to study Krio. 	
Researcher of the Month, Institute for Immunology & Informatics	2016
<ul style="list-style-type: none"> • Awarded to an outstanding researcher. 	
Foreign Studies Fellowship, Brown University	2011
<ul style="list-style-type: none"> • Awarded partial funding for thesis research. 	
Merit Scholarship, Brown University	2011
<ul style="list-style-type: none"> • Awarded for academic excellence. 	
Global Health Scholar, Brown University	2011
<ul style="list-style-type: none"> • Awarded for academic excellence and research potential. 	
President’s List, Seattle University	2007 – 2008
<ul style="list-style-type: none"> • Awarded to scholars with a GPA >3.9. 	

9. TEACHING EXPERIENCE

GEO 80.09 “Quantitative Methods for Humanitarian Emergencies”	2020
Instructor Dartmouth College	
MMSc-GHD Program Seminar	2016 – 2017
Teaching Assistant Harvard Medical School	
GHP 562 “Program Monitoring and Evaluation”	2016
Teaching Assistant Harvard T.H. Chan School of Public Health	
GHP 245 “Delivery of Health in Developing Countries”	2016
Teaching Assistant Harvard T.H. Chan School of Public Health	

ID 513 “Ethics and Health Disparities”	2016
Teaching Assistant Harvard T.H. Chan School of Public Health	
GHP 511 “International Perspectives on Justice for Children”	2016
Teaching Assistant Harvard T.H. Chan School of Public Health	
ID 205 “Societal Response to Disaster and War”	2016
Teaching Assistant Harvard T.H. Chan School of Public Health	
GHP 268 “Health and Human Rights”	2015 – 2016
Teaching Assistant Harvard T.H. Chan School of Public Health	
EPI 231 “Readings in Global Health”	2014 – 2017
Teaching Assistant Harvard T.H. Chan School of Public Health	