

# Emma Clarke-Deelder, MPhil., PhD

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Postdoctoral Research Collaborator  
Household Economics and Health Systems Research  
Department of Epidemiology and Public Health  
Swiss Tropical & Public Health Institute

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## Education

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PhD	Harvard University, Graduate School of Arts & Sciences <i>Cambridge, Massachusetts</i> Population Health Sciences Minors in Economics and Statistics	2016-2021
MPhil	University of Cambridge <i>Cambridge, United Kingdom</i> Development Studies <i>with Merit</i>	2012-2013
BA	Cornell University, College of Arts & Sciences <i>Ithaca, New York</i> Major in Government, <i>Summa cum Laude</i> Minor in French	2008-2012

## Research interests

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Impact evaluation (e.g., quasi-experimental methods, randomized controlled trials) and economic evaluation (e.g., cost-effectiveness analysis); health care quality measurement; maternal and child health; immunization

## Peer-reviewed publications

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1. **Clarke-Deelder E**, Opondo K, Oguttu M, Burke T, Cohen J\*, McConnell M\*. 2022. Forthcoming in *American Journal of Gynecology and Obstetrics: Maternal and Fetal Medicine*. "[Immediate postpartum care in low- and middle-income countries: a gap in health care quality research and practice.](#)" (\*Shared senior authorship)
2. Henry J, **Clarke-Deelder E**, Han D, Miller N, Opondo K, Oguttu M, Burke T, Cohen J, McConnell M. 2022. Forthcoming in *BMC Pregnancy and Childbirth*. "Health care provider's knowledge of clinical protocols for postpartum hemorrhage care in Kenya: a cross-sectional study."
3. Feldhaus I, Suharlim C, **Clarke-Deelder E**, Chatterjee S, Brenzel B, Resch S, Bossert T. 2022. Forthcoming in *Social Science & Medicine*. "Examining decentralization and managerial decision making for child immunization program performance in India."
4. **Clarke-Deelder E\***, Rokicki S\*, McGovern M\*, Birabwa C, Cohen J, Waiswa P. 2022. *Global Mental Health*. "[Experiences of COVID-19 Policy Measures and Mental Health in Uganda: Cross-Sectional Evidence from a Mobile Phone-Based Population Survey.](#)" (\*Shared first authorship)
5. Haber NA, **Clarke-Deelder E**, Feller A, Smith E, Salomon J, MacCormack-Gelles B, Stone E, Bolster-Foucault C, Daw J, Hatfield L, Fry C, Boyer C, Ben-Michael E, Joyce C, Linas B, Schmid I, Au E, Wieten S, Jarrett B, Axfors C, Griffin B, Bilinski A, Stuart E. 2022. *BMJ*

Open. [“Problems with evidence assessment in COVID-19 health policy impact evaluation: a systematic review of study design and evidence strength.”](#)

6. **Clarke-Deelder E**, Afriyie DO, Nseluke M, Masiye F, Fink G. 2022. *BMC Public Health*. [“Health care seeking in modern urban LMIC settings: evidence from Lusaka, Zambia.”](#)
7. **Clarke-Deelder E**, Eliakimu E, Mbatia R, Bohren M, Mashasi I, Larson E. 2022. *Tropical Medicine and International Health*. [“Measuring user experience of care among caregivers of sick children: validation and descriptive analysis in a sample of 75 health facilities in rural Tanzania.”](#)
8. Haber NA, **Clarke-Deelder E**, Salomon JA, Feller A, Stuart E. 2021. *American Journal of Epidemiology*. [“Impact Evaluation of Coronavirus Disease 2019 Policy: A Guide to Common Design Issues.”](#)
9. **Clarke-Deelder E**, Suharlim C, Chatterjee S, Brenzel L, Ray A, Cohen J, McConnell M, Resch S, Menzies N. 2021. *Health Policy and Planning*. [“Impact of campaign-style delivery of routine vaccines: a quasi-experimental evaluation using routine health services data in India.”](#)
10. Vaughan K\*, **Clarke-Deelder E\***, Tani K, Lyimo D, Mphuru A, Manzi F, Schütte C, Ozaltin A. 2020. *Vaccine*. [Immunization costs, from evidence to policy: findings from a nationally representative facility-based costing study and policy translation effort in Tanzania.](#) (\*Shared first authorship)
11. Portnoy A\*, Vaughan K\*, **Clarke-Deelder E**, Suharlim C, Resch S, Brenzel L, & Menzies N. 2020. *PharmacoEconomics*. [Producing Standardized Country-Level Immunization Delivery Unit Cost Estimates.](#) (\*joint contribution)
12. **Clarke-Deelder E**, Shapira G, Samaha H, Frische G, and Fink G. 2019. *BMC Public Health*. [Quality of care for children with severe in the Democratic Republic of the Congo.](#)
13. **Clarke-Deelder E**, Vassall A, and Menzies N. 2019. *Value in Health*. [Estimators used in multi-site healthcare costing studies in low- and middle-income countries: a systematic review and simulation study.](#)
14. Munk C, Portnoy A, Suharlim C, **Clarke-Deelder E**, Brenzel L, Resch S, and Menzies N. 2019. *BMC Health Services Research*. [Systematic review of the costs and effectiveness of interventions to increase infant vaccination coverage in low- and middle-income countries.](#)

## Manuscripts under review

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- **Clarke-Deelder E**, Opondo K, Achieng E, Garg L, Han D, Henry J, Guha M, Lightbourne A, Makin J, Miller N, Otieno B, Borovac-Pinheiro A, Suarez-Rebling D, Menzies N, Burke T, Oguttu M, McConnell M, Cohen J. “Quality of care for postpartum hemorrhage: a direct observation study in referral hospitals in Kenya.” (R&R at PLOS Global Public Health)
- Han D, **Clarke-Deelder E**, Miller N, Opondo K, Burke T, Oguttu M, McConnell M, Cohen J. “Health care provider decision-making and the quality of care for postpartum hemorrhage.”
- **Clarke-Deelder E**, Suharlim C, Chatterjee S, Portnoy A, Brenzel L, Ray A, Cohen J, Menzies NA, Resch S. “Health impact and cost-effectiveness of expanding routine immunization coverage in India using campaign-style delivery: a quasi-experimental study and economic evaluation.”

## Reports

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- Bilinski A, Birger R, Burn S, Chitwood M, **Clarke-Deelder E**, Copple T, Eaton J, Ehrlich H, Erlendsdottir M, Eshghi S, Farid M, Fitzpatrick M, Giardina J, Gonsalves G, Hsieh YL, Iloglu, Kao Y, MacKay E, Menzies N, Mulaney B, Paltiel D, Perniciaro S, Phillips M, Rich K, Salomon J, Sherak R, Shioda K, Swartwood N, Testa C, Thornhill T, White E, Williamson A, York A, Zhu J, and Zhu L. 2019. “[Defining high-value information for COVID-19 decision-making.](#)”
- Resch S, Menzies NA, Portnoy A, **Clarke-Deelder E**, O’Keefe L, Suharlim C, Brenzel L. 2019. “[How to cost immunization programs: a practical guide on primary data collection and analysis.](#)”
- **Clarke E**, Kallenberg J, Brooks A, Getchell M. June 2016. “Report to the Gavi Alliance Board: Health System and Immunisation Strengthening Support.”
- **Clarke E**, Kallenberg J, Brooks A, Getchell M. October 2015. “Report to the Gavi Alliance Programme and Policy Committee: Review of Gavi’s Model for Direct Financial Support to Countries.”
- [The Adolescent Girls Initiative in Rwanda: Final Evaluation Report.](#) June 2015. The World Bank. (with Ioana Botea, Shubha Chakravarty, Sarah Haddock, Sachin Gathani, Dimitri Stoelinga, and Bélice Kangabe)
- [Save the Children Literacy Boost: Baseline Study for the Community Component.](#) May 2014. Save the Children Rwanda. (with Sachin Gathani and Annabelle Wittels)

## Selected works in progress

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- “Clinician decision-making in sick child care: evidence from a randomized clinical vignette experiment in the Democratic Republic of the Congo” (with Günther Fink and Gil Shapira)
- “Impact of results-based financing on know-do gaps in care for sick children: evidence from four large-scale cluster randomized trials in sub-Saharan Africa (with Günther Fink and Gil Shapira)
- “Impact of campaign-style delivery of routine vaccines on other primary health care services: a quasi-experimental evaluation using routine health services data in India” (with Stephen Resch and Nicolas Menzies)
- “Population perspectives on health system performance in Lao PDR: evidence from a nationally representative population survey” (with Amit Aryal and Günther Fink)
- “Delays in childhood vaccination in low- and middle-income countries” (with Sebastian Bauhoff and Lily Hsieh)
- “Development of the mobile phone maternal and newborn health E-cohort to track longitudinal care quality in low- and middle-income country settings” (with Catherine Arsenaault, Margaret Kruk, and the QuEST Network)

## Research grants

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- 2020 *COVID-19 Intramural Funding for the Social Sciences*, Rutgers University  
**Co-Investigator** with Slawa Rokicki, Mark McGovern, and Jessica Cohen  
Title: “The economic and social impacts of COVID-19 public health policies in Uganda” (\$29,776)
- 2020 *Institute for Quantitative Social Sciences*, Harvard University  
**Principal Investigator** with Slawa Rokicki and Mark McGovern  
Title: “The impact of the COVID-19 pandemic on health and well-being in urban settings in sub-Saharan Africa: a panel study” (\$1,700)
- 2020 *Gamble Family Foundation*  
**Principal Investigator** with Slawa Rokicki and Mark McGovern  
Title: “The impact of the COVID-19 pandemic on health and well-being in urban settings in sub-Saharan Africa” (\$5,000)
- 2019 *Foundations of Human Behavior Institute*, Harvard University  
**Co-Investigator** with Jessica Cohen and Maggie McConnell  
Title: “Health Care Provider Beliefs and Quality of Care for Postpartum Hemorrhage in Kenya” (\$34,522)
- 2019 *Center for African Studies*, Harvard University  
**Principal Investigator**  
Title: “Quality of care for postpartum hemorrhage” (January term travel grant) (\$3,220)
- 2011 *Mario Einaudi Center for International Studies*, Cornell University  
Frederic Conger Wood Fellowship  
**Principal Investigator**  
Title: “Anti-immigration and the European Far-Right” (\$4,000)

## Awards and certificates

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- 2021 American Journal of Epidemiology (AJE) and Society for Epidemiologic Research (SER) [top 10 articles of the year](#) for Haber, Clarke-Deelder, Salomon, and Stuart (2021)
- 2020 Dissertation Completion Fellowship (Harvard University)
- 2016 CEO Star Award for updating the design of Gavi’s health systems and immunization strengthening support with Marya Getchell (Gavi, the Vaccine Alliance)
- 2014 DALF C1 certification in French (Institut Français du Rwanda in Kigali, Rwanda)
- 2012 Clyde A. Duniway Prize for the top graduating student with a major in Government out of 138 students (Cornell University Government Department)
- 2008-2012 Dean’s List (Cornell University College of Arts and Sciences)
- 2008 National Merit Scholarship

## Teaching experience

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- 2020      **GHP 525: Econometric Methods for Health Care Policy**  
Harvard T. H. Chan School of Public Health (30 masters and PhD students)  
Teaching assistant for Professor Sebastian Bauhoff
- Led lab sessions on topics in econometric methods and held office hours with students
  - *Topics:* Linear regression, potential outcomes framework, instrumental variables analysis, difference-in-differences, regression discontinuity designs, interrupted time-series analysis
- 2018-2019      **R workshop for Population Health Sciences**  
Harvard Graduate School of Arts & Sciences (40 1<sup>st</sup> year PhD students)
- Developed materials for and co-led a workshop focused on R programming
- 2018      **PHS 2000b: Quantitative Research Methods in Population Health Sciences**  
Harvard Graduate School of Arts & Sciences (40 1<sup>st</sup> year PhD students)  
Teaching Fellow for Professors Jessica Cohen, Tyler Vanderweele, and Jarvis Chen
- Developed and led lab sessions, developed and graded problem sets, developed and graded exams, and held office hours with students
  - *Topics:* Instrumental variables analysis, difference-in-differences, regression discontinuity designs, interrupted time-series analysis, interaction and mediation, propensity scores, marginal structural models for causal inference with time-varying confounding, missing data
- 2017-2018      **RDS 280: Decision Analysis for Health and Medical Practices**  
Harvard T. H. Chan School of Public Health (100 masters, PhD, and MD students)  
Teaching Assistant for Professor Ankur Pandya
- Developed and graded exams and held office hours with students
  - *Topics:* decision analysis using decision trees, cost-effectiveness analysis, health state preference elicitation

## Mentorship

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- 2019-2021      Junita Henry, Master's student (MA in Development Economics, MIT)  
2021-present      Amit Aryal, PhD student (PhD in Epidemiology & Public Health, Swiss TPH)

## Presentations

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- 2022      “Population mental health in Uganda during COVID-19: evidence from a national mobile phone survey.” **Population Association of America Annual Meeting**. Atlanta, Georgia. April 2022.
- 2022      “Understanding drivers of low-quality care for postpartum hemorrhage: evidence from referral hospitals in Kenya. **Quality Evidence for Health Systems Transformation (QuEST) Annual Symposium**. Mendoza, Argentina. March 2022.

- 2021 “Know-do gaps in care for sick children: evidence from five countries in sub-Saharan Africa.” **Invited presentation at the University of Manchester Centre for Primary Care and Health Services Research.** Virtual. November 2021.
- 2021 “Know-do gaps in care for sick children: evidence from five countries in sub-Saharan Africa.” **Quality Evidence for Health Systems Transformation (QuEST) Research Seminar.** Virtual. November 2021.
- 2021 “Impact of campaign-style delivery of routine vaccines on other routine health services: a quasi-experimental evaluation using routine health services data from India.” **International Health Economics Association Annual Meeting.** Virtual. July 2021.
- 2021 “Quality of care for postpartum hemorrhage in Kenya: a direct observation study.” **American Society of Health Economists Annual Meeting.** Virtual. June 2021.
- 2020 “Effects and Cost-Effectiveness of Expanding Routine Immunization Coverage in India Using Campaign-Style Delivery: A Quasi-Experimental Study and Economic Evaluation.” (Poster presentation, Finalist for the Lee Lusted Award). **Society for Medical Decision-Making.** Virtual, October 2020.
- 2020 “Quality of care for postpartum hemorrhage in referral hospitals in Kenya: a direct clinical observation study.” (Poster presentation.) **Swiss Public Health Conference.** Virtual, September 2020.
- 2020 “Measuring user experience of care among caregivers of sick children: validation and descriptive analysis in a sample of health facilities in rural Tanzania.” (Poster presentation.) **Global Women’s Research Society, 2020 conference on “Implementing Respectful Care: the Science and the Practice.”** Virtual, September 2020.
- 2020 “Understanding drivers of quality care for postpartum hemorrhage: insights from a mixed methods study in Kenya.” (Oral Presentation.) **Maternal, Neonatal, and Child Health Department, Bill & Melinda Gates Foundation.** Virtual, July 2020.
- 2019 “Behavioral Barriers to Appropriate Management of Postpartum Hemorrhage.” (Oral Presentation.) **International Health Economics Association: Pre-Conference on Health Care Provider Behavior and Quality of Care in Low- and Middle-income Countries.** Basel, Switzerland, July 2019.
- 2019 “Quantifying the Additional Doses Delivered due to the Intensified Mission Indradhanush Program in India: A Difference-in-Differences Analysis.” (Oral Presentation.) **International Health Economics Association.** Basel, Switzerland, July 2019.
- 2019 “Estimators Used in Multi-Site Healthcare Costing Studies in LMICs: A Systematic Review and Simulation Study.” (Oral Presentation.) **International Health Economics Association.** Basel, Switzerland, July 2019.
- 2018 “Systematic review and simulation study of summary estimators in multi-site health care costing studies in LMICs.” (Poster Presentation.) **5<sup>th</sup> Annual State of Global Health Symposium, Harvard T. H. Chan School of Public Health.** Boston, MA, March 29, 2018.

## Professional experience

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- 2017-2021     **Center for Health Decision Sciences**, Harvard University, Boston, Massachusetts  
Research Assistant
- 2014-2016     **Gavi, the Vaccine Alliance**, Geneva, Switzerland  
Programme Officer, Policy & Market Shaping
- 2013-2014     **Laterite**, Kigali, Rwanda  
Research Analyst

## Other professional activities

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- Reviewer for: American Journal of Tropical Medicine and Hygiene, BMJ, BMJ Global Health, Frontiers in Public Health, Health Affairs, PLOS Global Public Health, Social Science & Medicine, Systematic Reviews, Vaccine, World Development

## Languages

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English (native), French (fluent)

## References

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Nicolas Menzies, PhD (Dissertation Committee Chair)  
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