

# Curriculum Vitae

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**Samuel J. Clark**

## **Personal & Contact Information**

Name: Samuel Joseph Clark

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## Education

- 2001: Ph.D. in Demography, University of Pennsylvania  
1995: M.A. in Demography, University of Pennsylvania  
1993: B.S. in Biology, California Institute of Technology – emphasis in Neurophysiology  
1993: B.S. in Engineering and Applied Science, California Institute of Technology – emphasis in Computational Neural Systems

## Ph. D. Dissertation

CLARK, SAMUEL J. 2001. “An Investigation into the Impact of HIV on Population Dynamics in Africa.” PhD diss., University of Pennsylvania.

## Employment

### Current

- 2016 – : Professor, Department of Sociology, The Ohio State University, Columbus, Ohio  
2008 – : Honorary Senior Scientist, MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, University of the Witwatersrand, South Africa  
2001 – : Research Associate, Population Unit, Institute of Behavioral Science, University of Colorado at Boulder

### Previous

- 2011 – 2016: Associate Professor, Department of Sociology, University of Washington, Seattle, Washington  
2005 – 2011: Assistant Professor, Department of Sociology, University of Washington, Seattle, Washington  
2007 – : Honorary Research Associate, School of Computational and Applied Mathematics, University of the Witwatersrand, South Africa  
2007 – 2008: Visiting Senior Researcher, School of Public Health, University of the Witwatersrand, South Africa  
2003 – 2007: Honorary Research Officer, School of Computational and Applied Mathematics, University of the Witwatersrand, South Africa

- 2002 – 2007: Honorary Lecturer/Research Officer, Agincourt Health and Population Unit, School of Public Health, University of the Witwatersrand, South Africa
- 2001 – 2005: Research Associate, Graduate Group in Demography, University of Pennsylvania

## Research Support

### Current

- OSU IPR Seed grant: \$60,000. 2017. *A General Mortality Modeling Framework in the Era of the SDGs*. CLARK, SAMUEL J (PI). Period: 2017. **Role: Principal Investigator**. Principal Authors: S. J. CLARK. Hosting Institution: The Ohio State University Institute for Population Research (IPR).
- NIH: NICHD, R01 No. 1R01HD086227-01: \$490,000 per year. 2016. *Verbal Autopsy: Reimagining Data & Automated Cause Assignment (using ALPHA Network data)*. CLARK, SAMUEL J (PI). Period: 2016-2021. **Role: Principal Investigator**. Principal Authors: S. J. CLARK, T. H. McCormick. Hosting Institution: The Ohio State University.

### Completed

- Bill and Melinda Gates Foundation, Invited Project. \$1,500,000. 2015. *Supplement to ‘Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment’*. Zaba, Basia (PI), Period: 2014-2016 (24 months, extended). **Role: Co-Applicant**. Principal Authors: B. Zaba, J. Todd, G. Reniers and S. J. CLARK. Hosting Institution: London School of Hygiene and Tropical Medicine.
- London School of Hygiene and Tropical Medicine, Subaward. \$240,000. 2015. *Supplement to ‘Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment’*. CLARK, SAMUEL J (PI). Period: 2014-2016 (24 months). **Role: Principal Investigator**. Principal Authors: S. J. CLARK, T. McCormick and B. Zaba. Hosting Institution: University of Washington.
- Center for Studies in Demography and Ecology (CSDE), University of Washington, Seed Grant: \$20,000. 2014. *Survey-based Cause of Death Assignment*. McCormick, Tyler and CLARK, SAMUEL J (PI). Period: 2014. **Role: Co-Principal Investigator**. Principal Authors: T. McCormick and S. J. Clark. Hosting Institution: University of Washington.
- Wellcome Trust, Strategic Award. \$425,000 per year. 2014. *Preventing Cardiometabolic Diseases in Africa: Life-Course and Multi-sector Approaches*. Tollman, Stephen M. (PI). Period: 2014-2016. **Role: Co-Applicant**. Principal Authors: S. M. Tollman, K. Kahn, S. J. CLARK, S. Norris. Hosting Institution: University of the Witwatersrand.

- Bill and Melinda Gates Foundation, Invited Project. \$1,398,000 per year. 2013. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. Zaba, Basia (PI). Period: 2013-2015 (30 months, extended). **Role: Co-Applicant**. Principal Authors: B. Zaba, J. Todd, G. Reniers and S. J. CLARK. Hosting Institution: London School of Hygiene and Tropical Medicine.
- ICF-I & US Agency for International Development (USAID), *Ad hoc* Contract: \$114,000. 2013. *Exploring the HYAK Real-time Health and Population Measurement Platform in Tanzania using DHS Surveys and Health and Demographic Surveillance System Data*. CLARK, SAMUEL J (PI). Period: 2013. **Role: Principal Investigator**. Principal Authors: S. J. CLARK, J. Wakefield and T. McCormick. Hosting Institution: University of Washington.
- London School of Hygiene and Tropical Medicine, Subaward. \$73,000 per year. 2013. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. CLARK, SAMUEL J (PI). Period: 2013-2015 (30 months, extended). **Role: Principal Investigator**. Principal Authors: S. J. CLARK, T. McCormick and B. Zaba. Hosting Institution: University of Washington.
- NIH: NICHD R01 No. R01HD070936: \$295,000 per year. 2012. *Probabilistic Population Projections for All Countries*. Raftery, A. E. (PI). Period: 2012-2017. **Role: Investigator**. Principal Author: A. E. Raftery. Hosting Institution: University of Washington.
- Center for Studies in Demography and Ecology (CSDE), University of Washington, Seed Grant: \$15,000. 2009. *A New Look at Indirect Methods for Estimating Demographic Indicators: Evaluation, Validation and Reformulation*. CLARK, SAMUEL J (PI). Period: Summer 2009. **Role: Principal Investigator**. Principal Author: S. J. CLARK. Hosting Institution: University of Washington.
- Wellcome Trust, Programme Grant: No. 090959/Z/09/Z. \$360,000 (200,000 pounds sterling) per year. 2009. *Collaborative Network for Data Analysis in African Community-Based, Longitudinal HIV Studies*. Zaba, Basia (PI). Period: 04/01/2010 – 03/31/2015 (extended). **Role: Co-Applicant**. Principal Authors: B. Zaba, V. Hosegood, S. J. CLARK, D. Mayer and J. Kagaayi. Hosting Institution: London School of Hygiene and Tropical Medicine.
- Wellcome Trust, Programme Grant: No. 085477/Z/08/Z: \$850,000 (575,000 pounds sterling) per year. 2008. *Health, Population and Social Transitions in Rural South Africa: Elucidating Pathways and Testing Interventions*. Tollman, Stephen M. (PI). Period: 2008 – 2012. **Role: Co-Applicant**. Principal Authors: S. M. Tollman, K. Kahn, M. A. Collinson and S. J. CLARK. Hosting Institution: University of the Witwatersrand.
- CSSS, University of Washington. Seed Grant: \$20,000. 2007. *Estimating HIV Prevalence in Africa by Applying Bayesian Melding to a Cohort Component Projection Model*. CLARK, SAMUEL J (PI). Period: 2007. **Role: Principal Investigator**. Principal Author: S. J. CLARK. Hosting Institution: University of Washington.
- NIH: NIA, R24: No. R24AG032112: \$300,000 per year. 2007. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. Menken, Jane; Tollman, Stephen and CLARK, SAMUEL J (Co-PIs). Period: 09/30/2007 – 08/31/2012.

**Role: Co-Principal Investigator.** Principal Authors: S. J. CLARK, J. Menken and S. M. Tollman. Hosting Institution: University of Colorado at Boulder.

NIH: NICHD R01 No. R01HD054511: \$320,000 per year. 2007. *Assessing Uncertainty in Population Projection Models via Bayesian Melding*. Raftery, A. E. (PI). Period: 2007-2011.

**Role: Investigator.** Principal Author: A. E. Raftery. Hosting Institution: University of Washington.

NIH: NICHD, K01: No. K01HD057246: \$115,000 per year. 2007. *Predicting Impacts of Infectious Disease on Structure and Dynamics of Populations*. CLARK, SAMUEL J (PI).

Period: 06/15/2008 – 09/31/2013. **Role: Principal Investigator.** Principal Author: S. J. CLARK. Hosting Institution: University of Washington.

University of California, Los Angeles, Subaward: \$50,000 per year. 2007. *Design and Implementation of MIPopLab Demographic Surveillance System Data Management System*.

CLARK, SAMUEL J (PI). Period: 09/21/2007 – 09/31/2014. **Role: Principal Investigator.** Principal Authors: S. J. CLARK and P. Heuveline. Hosting Institution: University of Washington.

NIH: NIA, R03 No. R03AG028640: \$45,000 per year. 2006. *Extending Access to Data from Demographic Surveillance System Sites in Africa*. CLARK, SAMUEL J (PI). Period:

09/15/2006 – 06/30/2008 extended 06/30/2009. **Role: Principal Investigator.** Principal Author: S. J. CLARK. Hosting Institution: University of Colorado at Boulder.

NIH: FIC (Fogarty International Center), R25 No. R25TW007491: \$125,000 per year. 2005. *Framework in Global Health: Local to Global Health*. Kimball, Ann-Marie (PI). Period:

09/21/2005 – 07/31/2006. **Role: Instructor.** Principal Authors: A-M. Kimball and M. Morris. Hosting Institution: University of Washington.

NIH: NICHD, R03: No. R03HD041537: \$50,000 per year. 2004. *Cambodia between the Khmers Rouges and the Red Plague?* Heuveline, P. (PI). Period: 2002 – 2004. **Role: Consultant.**

Principal Author: P. Heuveline. Hosting Institution: University of Chicago.

NIH: NIA, Supplement to R37 No. 3 R37AG10168-09S2: \$50,000. 1999. *Racial and Ethnic Mortality Differences at Older Ages*. Preston, Samuel H. (PI). Period: 1999 – 2001. **Role:**

**Author/Principal Investigator of Supplement.** Principal Author: S. J. CLARK. Hosting Institution: University of Pennsylvania.

NSF: No. SBR-9505738. \$100,000 per year. 1995. *Long Term Study of Social Change in Rural Zambia*. Scudder, T. (PI). Period: 08/01/1995 – 07/31/1998. **Role: Investigator.**

Principal Authors: T. Scudder, E. Colson and S. J. CLARK. Hosting Institution: California Institute of Technology (Caltech).

## Publications & Manuscripts

### Journal Articles

**NB:** I collaborate with researchers in a range of disciplines (demography, statistics, public health, global health, sociology, anthropology, etc.), and I have begun to adopt the medical publishing convention of occupying the last author slot when I am the senior investigator on the team and have overall responsible for the research described in the publication. Regardless of author position, a dagger † indicates the senior author who is responsible for motivating the work, coordinating the research and publication, and raising funds to support the work. An asterisk \* indicates a student author, often as first author when the research is part of the student’s dissertation.

The [dark blue](#) text contains links to either download a PDF of the article (article title text), or to take you to the publisher’s site (DOI text).

### Published

CLARK†, SAMUEL J, Jon Wakefield, Tyler H. McCormick, and Michelle Ross\*. 2017. “Hyak Mortality Monitoring System - Innovative Sampling and Estimation Methods.” *Forthcoming: Global Health, Epidemiology and Genomics*.

Kabudula\*, Chodziwadziwa W, Brian Houle, Mark A Collinson, Kathleen Kahn, SAMUEL J CLARK†, and Stephen Tollman. 2017. “[Progression of the Epidemiological Transition in a Rural South African Setting: Findings from Population Surveillance in Agincourt, 1993–2013.](#)” *BMC Public Health* 17 (1): 424. doi:[10.1186/s12889-017-4312-x](#).

Kabudula\*, Chodziwadziwa W, Brian Houle, Mark A Collinson, Kathleen Kahn, F. Xavier Gómez-Olivé, Stephen Tollman, and SAMUEL J CLARK†. 2017. “[Socioeconomic differences in mortality in the antiretroviral therapy era in Agincourt, rural South Africa, 2001–13: a population surveillance analysis.](#)” *Lancet Global Health* 5 (9): e924–e935. doi:[10.1016/S2214-109X\(17\)30297-8](#).

Nichols, Erin K, Peter Byass, Daniel Chandramohan†, SAMUEL J CLARK, Abraham D Flaxman, Robert Jakob, Jordana Leitao, Nicolas Maire, Chalapati Rao, Ian Riley, and Philip Setel. 2017. “The WHO 2016 verbal autopsy instrument: an international standard suitable for automated analysis by InterVA, InSilicoVA, and Tariff 2.0.” *Forthcoming: PLoS Medicine*.

Pantazis\*, Athena, and SAMUEL J CLARKCLARK†. 2017. “A Parsimonious Characterization of Change in Global Age-Specific and Total Fertility with a Focus on Sub-Saharan Africa.” *Forthcoming: PLoS ONE*.

Reniers†, Georges, Sylvia Blom, Judith Lieber, Abraham J Herbst, Clara Calvert, Jacob Bor, Till Barnighausen, Basia Zaba, Zehang (Richard) Li\*, SAMUEL J CLARK, Alison Grant, Richard Lessells, Jeffrey W Eaton, and Victoria Hosegood. 2017. “[Tuberculosis mortality](#)”

and the male survival deficit in rural South Africa: An observational community cohort study.” *PLoS One* 12 (10): e0185692. doi:10.1371/journal.pone.0185692.

- Sharrow, David J, Jessica Godwin\*, Yanjun He\*, SAMUEL J CLARK, and Adrian E Raftery†. 2017. “Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics.” *Forthcoming: Population Studies*: preprint: <https://arxiv.org/pdf/1609.04383.pdf>.
- Bawah†, Ayaga, Brian Houle, Nurul Alam, Abdur Razzaque, Peter Kim Streatfield, Cornelius Debpuur, Paul Welaga, Abraham Oduro, Abraham Hodgson, Stephen Tollman, Mark Collinson, Kathleen Kahn, Toan Ho Dang, Nguyen Thi Im Chuc, Osman Sankoh, and SAMUEL J CLARK†. 2016. “The Evolving Demographic and Health Transition in Four Low-and Middle-Income Countries: Evidence from Four Sites in the INDEPTH Network of Longitudinal Health and Demographic Surveillance Systems.” *PloS One* 11 (6): e0157281. doi:10.1371/journal.pone.0157281.
- Houle, Brian, Nicole Angotti†, SAMUEL J CLARK, Jill Williams, F. Xavier Gómez-Olivé, Jane Menken, Chodziwadziwa Kabudula, Kerstin Klipstein-Grobusch, and Stephen M Tollman. 2016. “Lets Talk about Sex, Maybe Interviewers, Respondents, and Sexual Behavior Reporting in Rural South Africa.” *Field Methods*: 1525822X15595343. doi:10.1177/1525822X15595343.
- Houle, Brian, Athena Pantazis\*, Chodziwadziwa Kabudula\*, Stephen Tollman, and SAMUEL J CLARK†. 2016. “Social Patterns and Differentials in the Fertility Transition Based on Population Surveillance: Rural South Africa, 1993 – 2013.” *Population Health Metrics* 14 (10). doi:10.1186/s12963-016-0079-z.
- Kabudula\*, Chodziwadziwa W, Brian Houle, Mark A Collinson, Kathleen Kahn, Stephen Tollman, and SAMUEL J CLARK†. 2016. “Assessing Changes in Household Socioeconomic Status in Rural South Africa, 2001–2013: A Distributional Analysis Using Household Asset Indicators.” *Social Indicators Research*. doi:10.1007/s11205-016-1397-z.
- McCormick, Tyler H., Zehang (Richard) Li\*, Clara Calvert\*, Amelia C. Crampin, Kathleen Kahn, and SAMUEL J CLARK†. 2016. “Probabilistic Cause-of-Death Assignment using Verbal Autopsies.” *Journal of the American Statistical Association* 111 (515): 1036–1049. doi:10.1080/01621459.2016.1152191.
- Reniers, Georges, Marylene Wamukoya, Mark Urassa, Amek Nyaguara, Jessica Nakiyingi-Miir, Tom Lutalo, Vicky Hosegood, Simon Gregson, Xavier Gomez-Olive, Eveline Geubbels, Amelia C. Crampin, Alison Wringe, Laban Waswa, Stephen Tollman, Jim Todd, Emma Slaymaker, David Serwadda, Alison Price, Samuel Oti, Moffat J. Nyirenda, Dorean Nabukalu, Constance Nyamukapa, Fred Nalugoda, Owen Mugurungi, Baltazar Mtenga, Lisa Mills, Denna Michael, Estelle McLean, Nuala McGrath, Emmanuel Martin, Milly Marston, Sewe Maquins, Francis Levira, Catherine Kyobutungi, Daniel Kwaro, Ivan Kasamba, Chifundo Kanjala, Kathleen Kahn, Chodziwadziwa Kabudula, Kobus Herbst, Dickman Gareta, Jeffrey W. Eaton, SAMUEL J CLARK, Kathryn Church, Menard Chihana, Clara Calvert, Donatien Beguy, Gershim Asiki, Shamte Amri, Ramadhani

- Abdul, and Basia Zaba<sup>†</sup>. 2016. “Data Resource Profile: Network for Analysing Longitudinal Population-based HIV/AIDS data on Africa (ALPHA Network).” *International Journal of Epidemiology* 45 (1): 83–93. doi:10.1093/ije/dyv343.
- Reniers<sup>†</sup>, Georges, Sylvia Blom, Clara Calvert, Alexandra Martin-Onraet, Abraham J Herbst, Jeffrey W Eaton, Jacob Bor, Emma Slaymaker, Zehang R Li, SAMUEL J CLARK, Till Barnighausen, Basia Zaba, and Victoria Hosegood. 2016. “Trends in the Burden of HIV Mortality after Roll-out of Antiretroviral Therapy in KwaZulu-Natal, South Africa: an Observational Community Cohort Study.” *The Lancet HIV*. doi:10.1016/S2352-3018(16)30225-9.
- Wheldon\*, Mark, Adrian E. Raftery<sup>†</sup>, SAMUEL J CLARK, and Patrick Gerland. 2016. “Bayesian Population Reconstruction of Female Populations for Less Developed and Developed Countries.” *Population Studies* 70 (1): 21–37. PMID: PMC4798897. doi:10.1080/00324728.2016.1139164.
- CLARK<sup>†</sup>, SAMUEL J, F Xavier Gómez-Olivé, Brian Houle, Margaret Thorogood, Kerstin Klipstein-Grobusch, Nicole Angotti, Chodziwadziwa Kabudula\*, Jill Williams, Jane Menken, and Stephen Tollman. 2015. “Cardiometabolic Disease Risk and HIV Status in Rural South Africa: Establishing a Baseline.” *BMC Public Health* 15 (135): PMID: PMC4335669. doi:10.1186/s12889-015-1467-1.
- Houle, Brian, SAMUEL J CLARK<sup>†</sup>, and Alicia Ely Yamin. 2015. “The Impacts of Maternal Mortality and Cause of Death on Children’s Risk of Dying in Rural South Africa: Evidence from a Population based Surveillance Study (1992 – 2013).” *BMC Reproductive Health* 12 (Suppl 1:S7). doi:10.1186/1742-4755-12-S1-S7.
- Mercer\*, Laina D., Jon Wakefield, Athena Pantazis\*, Angelina M Lutambi, Honorati Masanja, and SAMUEL J CLARK<sup>†</sup>. 2015. “Small Area Estimation of Child Mortality in the Absence of Vital Registration.” *Annals of Applied Statistics, The Annals of Applied Statistics* 9 (4): 1889–1905. doi:10.1214/15-AOAS872.
- Wheldon\*, Mark, Adrian E. Raftery<sup>†</sup>, SAMUEL J CLARK, and Patrick Gerland. 2015. “Bayesian Reconstruction of Two-Sex Populations by Age: Estimating Sex Ratios at Birth and Sex Ratios of Mortality.” *Journal of the Royal Statistical Association, Series A* 178 (4): 977–1007. PMID: PMC4657758. doi:10.1111/rssa.12104.
- Zaba<sup>†</sup>, Basia, Georges Reniers, Emma Slaymaker, Jim Todd, Judith Glynn, Amelia Crampin, Mark Urassa, Tom Lutalo, Marie-Louise Newell, Victoria Hosegood, SAMUEL CLARK, and Simon Gregson. 2015. “Understanding Why People Participate in HIV Surveillance.” *Bulletin of the World Health Organization* 93 (5): 356–358.
- Zaba<sup>†</sup>, Basia, Georges Reniers, Emma Slaymaker, Jim Todd, Judith Glynn, Mia Crampin, Mark Urassa, Tom Lutalo, Vicky Hosegood, Marie-Louise Newell, SAMUEL J CLARK, and Simon Gregson. 2015. “Response to Dermot Maher Article ‘The Ethics of Feedback of HIV Test Results in Population-Based Surveys of HIV Infection’.” *Bulletin of the World Health Organization, Forthcoming: Bulletin of the World Health Organization*.



- Bocquier, Phillipe, Mark A Collinson<sup>†</sup>, SAMUEL J CLARK, Kathleen Kahn, and Stephen M Tollman. 2014. “Ubiquitous Burden: Quantifying the Contribution of Migration to AIDS and Tuberculosis Mortality in Rural South Africa. A Population-Based Surveillance Study.” *African Population Studies* 28 (1): 691–701.
- CLARK<sup>†</sup>, SAMUEL J, and Brian Houle. 2014. “Validation, Replication, and Sensitivity Testing of Heckman-type Selection Models to Adjust Estimates of HIV Prevalence.” *PLoS One* 9 (11): e112563.
- Collinson<sup>†</sup>, Mark A., Michael J. White, Philippe Bocquier, Stephen McGarvey, Sulaimon Afolabi, SAMUEL J CLARK, Kathleen Kahn, and Stephen M. Tollman. 2014. “Migration and the Epidemiological Transition: Insights from the Agincourt Sub-District of Northeast South Africa.” *Global Health Action* 7 (23514). doi:10.3402/gha.v7.23514.
- Houle\*, Brian, SAMUEL J CLARK<sup>†</sup>, F. Xavier Gómez-Olivé, Kathleen Kahn, and Stephen M. Tollman. 2014. “The Unfolding Counter-Transition in Rural South Africa: Mortality by Sex, Age, SES, Time, and Cause of Death, 1994 – 2009.” *PLoS One* 9 (6): e100420.
- McParland\*, Damien, Isobel Claire Gormley, SAMUEL J CLARK<sup>†</sup>, Tyler H. McCormick, Chodziwadziwa Whiteson Kabudula\*, and Mark A. Collinson. 2014. “Clustering South African Households Based on their Asset Status Using Latent Variable Models.” *Annals of Applied Statistics* 8 (2): 747–776.
- Pantazis\*, Athena, and SAMUEL J CLARK<sup>†</sup>. 2014. “Male and Female Sterility in Zambia.” *Demographic Research* 30 (14): 413–428.
- Sankoh, Osman, David Sharrow\*, Kobus Herbst, Chodziwadziwa Whiteson Kabudula, Nurul Alam, Shashi Kant, Henrik Ravn, Abbas Bhuiya, Le Thi Vui, Timotheus Darikwa, Margaret Gyapong, Momodou Jasseh, Nguyen Chuc Thi Kim, Salim Abdullah, Amelia Crampin, John Ojal, Seth Owusu-Agyei, Frank Odhiambo, Mark Urassa, Kim Streatfield, Masaaki Shimada, Charfudin Sacoor, Donatien Beguy, Karim Derra, George Wak, Valerie Delaunay, Ali Sie, Abdramane Soura, Diadier Diallo, Siswanto Wilopo, Honorati Masanja, Bassirou Bonfoh, Suparat Phuanukoonnon, and SAMUEL J CLARK<sup>†</sup>. 2014. “The INDEPTH Standard Population for Low- and Middle-Income Countries, 2013.” *Global Health Action* 7 (23286). doi:10.3402/gha.v7.23286.
- Sharrow\*, David J., SAMUEL J CLARK, and Adrian E. Raftery. 2014. “Modeling Age-Specific Mortality for Countries with Generalized HIV Epidemics.” *PLoS One* 9 (5): e96447. PMID: PMC4031074.
- CLARK<sup>†</sup>, SAMUEL J, Kathleen Kahn, Brian Houle\*, Adriane Arteche\*, Mark A. Collinson, Stephen M. Tollman, Kathleen Kahn, and Alan Stein. 2013. “Young Children’s Probability of Dying Before and After Their Mothers’ Death: A Rural Southern African Population-Based Surveillance Study.” *PLoS Medicine* 10 (3): e1001409. PMID: PMC3608552.
- Gómez-Olivé, F. Xavier, Nicole Angotti, Brian Houle\*, Kerstin Klipstein-Grobusch, Chodziwadziwa Kabudula\*, Jane Menken, Jill Williams, Stephen Tollman, and SAMUEL J

- CLARK<sup>†</sup>. 2013. “Prevalence of HIV among Those 15 and Older in Rural South Africa.” *AIDS Care* 25 (9): 1122–1128.
- Houle\*, Brian, Alan Stein, Kathleen Kahn, Sangeetha Madhavan, Mark A. Collinson, Stephen M. Tollman, and SAMUEL J CLARK<sup>†</sup>. 2013. “Household Context and Child Mortality in Rural South Africa: The Effects of Birth Spacing, Shared Mortality, Household Composition, and Socio-Economic Status.” *International Journal of Epidemiology* 42 (5): 1444–1454.
- Sharrow\*, David, SAMUEL J CLARK<sup>†</sup>, Mark A. Collinson, Kathleen Kahn, and Stephen M. Tollman. 2013. “The Age-Pattern of Increases in Mortality Affected by HIV: Bayesian Fit of the Heligman-Pollard Model to Data from the Agincourt Health and Demographic Surveillance System Field Site in Rural Northeast South Africa.” *Demographic Research* 29 (39): 1039–1096.
- Wheldon\*, Mark C., Adrian E. Raftery<sup>†</sup>, SAMUEL J CLARK, and Patrick Gerland. 2013. “Reconstructing Past Populations with Uncertainty from Fragmentary Data.” *Journal of the American Statistical Association* 108 (501): 96–110. doi:<http://dx.doi.org/10.1080/01621459.2012.737729>.
- Alkema\*, Leontine, Adrian E. Raftery<sup>†</sup>, Patrick Gerland, SAMUEL J CLARK, and Francois Pelletier. 2012. “Estimating Trends in the Total Fertility Rate with Uncertainty Using Imperfect Data: Examples from West Africa.” *Demographic Research* 26 (15): 331–362.
- Byass<sup>†</sup>, Peter, Daniel Chandramohan, SAMUEL J CLARK, Lucia D’Ambruoso, Edward Fottrell, Wendy J Graham, Abraham J Herbst, Abraham Hodgson, Sennen Hounton, Kathleen Kahn, et al. 2012. “Strengthening Standardised Interpretation of Verbal Autopsy Data: the New InterVA-4 Tool.” *Global Health Action* 5 (19281): PMID: PMC3433652. doi:[10.3402/gha.v5i0.19281](https://doi.org/10.3402/gha.v5i0.19281).
- CLARK<sup>†</sup>, SAMUEL J, Jason Thomas\*, and Le Bao\*. 2012. “Estimates of Age-Specific Reductions in HIV Prevalence in Uganda: Bayesian Melding Estimation and Probabilistic Population Forecast with an HIV-enabled Cohort Component Projection Model.” *Demographic Research* 27 (26): 743–774.
- Kahn<sup>†</sup>, Kathleen, Mark A Collinson, F Xavier Gómez-Olivé, Obed Mokoena, Rhian Twine, Paul Mee, Sulaimon A Afolabi, Benjamin D Clark, Chodziwadziwa W Kabudula, Audrey Khosa, Simon Khoza, Mildred Shabangu, Bernard Silaule, Jeffrey B Tibane, Ryan G Wagner, Michel L Garenne, SAMUEL J CLARK, and Stephen M Tollman. 2012. “Profile: Agincourt Health and Socio-Demographic Surveillance System.” *International Journal of Epidemiology* 41 (4): 988–1001.
- Madhavan<sup>†</sup>, Sangeetha, Enid Shatz, SAMUEL J CLARK, and Mark A. Collinson. 2012. “Child Mobility, Maternal Status and Household Composition in Rural South Africa.” *Demography* 49 (2): 699–718.

- Alkema\*, Leontine, Adrian E. Raftery†, Patrick Gerland, SAMUEL J CLARK, Francois Pelletier, and Thomas Buettner. 2011. “[Probabilistic Projections of the Total Fertility Rate for All Countries.](#)” *Demography* 48 (3): 815–839. PMID: PMC3367999.
- Thomas\*, Jason, and SAMUEL J CLARK†. 2011. “[More on the Cohort-Component Model of Population Projection in the Context of HIV/AIDS: A Leslie Matrix Representation and New Estimation Methods.](#)” *Demographic Research* 25 (2): 39–102.
- Williams†, Jill R., Enid J. Schatz, Benjamin D Clark, Mark A. Collinson, SAMUEL J CLARK, Jane Menken, Kathleen Kahn, and Stephen M. Tollman. 2010. “[Improving Public Health Training and Research Capacity in Africa: A Replicable Model for Linking Training to Health and Socio-Demographic Surveillance Data.](#)” *Global Health Action* 3 (5287). doi:10.3402/gha.v3i0.5287.
- Cassels†, Susan, SAMUEL J CLARK, and Martina Morris. 2008. “[Mathematical Models for HIV Transmission Dynamics: Tools for Social and Behavioral Science Research.](#)” *Journal of Acquired Immune Deficiency Syndromes (JAIDS)* 47 (Supplement 1): S34–S39.
- Tollman†, Stephen Meir, Kathleen Kahn, Benn K. Sartorius, Mark A. Collinson, SAMUEL J CLARK, and Michel L. Garenne. 2008. “[Implications of Mortality Transition for Primary Health Care in Rural South Africa: A Population-based Surveillance Study.](#)” *Lancet* 372:893–901.
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- CLARK†, SAMUEL J. 2007. “[An Introduction to the General Temporal Data Model and the Structured Population Event History Register.](#)” *Scandinavian Journal of Public Health* 35 (Suppl 69): 21–25.
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### **In Submission/Review Process**

- CLARK<sup>†</sup>, SAMUEL J. 2017 (in Review). “A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality.”
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- CLARK<sup>†</sup>, SAMUEL J, David J Sharrow, and Osman A. Sankoh. 2017 (In Review). “INDEPTH Model Life Tables for Low- to Middle-Income Countries.”
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### **In Preparation**

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- Kunihama, Tsuyoshi, Zehang (Richard) Li\*, Tyler H McCormick, and SAMUEL J CLARK<sup>†</sup>. 2017 (Draft). “Bayesian Estimation of Distributions of Causes of Death with Verbal Autopsy Surveys.”
- Li\*, Zehang (Richard), Tyler H McCormick, Tsuyoshi Kunihama, and SAMUEL J CLARK<sup>†</sup>. 2017 (Draft). “Bayesian Latent Gaussian Model for Mixed and Missing Data with Marginal Prior Information.”

- Li\*, Zehang, Yuan Hsiao\*, Jessica Godwin\*, Bryan Martin\*, Jon Wakefield, and SAMUEL J CLARK<sup>†</sup>. 2017 (Draft). “Changes in the Spatial Distribution of the Under Five Mortality Rate: Small-area Analysis of 136 DHS Surveys in 33 Countries in Africa and Asia.”
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- Calvert, Clara, Alison Price, Emma Slaymaker, Georges Reniers, Kobus Herbst, D Michael, SAMUEL J CLARK, Basia Zaba<sup>†</sup>, and Amelia Crampin. 2017 (in Preparation). “Beyond AIDS-Related Deaths: Calculating the Risk of Non-Communicable Disease Mortality Attributable to HIV from Verbal Autopsy Data.”
- Surek-Clark, Clarissa, and SAMUEL J CLARK<sup>†</sup>. 2017 (in Preparation). “Analysis of ‘Real-World’ Design and Conduct of Verbal Autopsy Interviews at Four Rural Fieldsites in East and Southern Africa.”
- Surek-Clark, Clarissa, and SAMUEL J CLARK<sup>†</sup>. 2017 (in Preparation). “Review of Physicians’ Narratives Concerning Verbal Autopsy.”

### Comments/Notes

- Sankoh, Osman, Peter Byass, INDEPTH Network, et al. 2017. “[New INDEPTH strategy for the SDGs using robust population data.](#)” *The Lancet Global Health* 5 (7): e647–e648. doi:10.1016/S2214-109X(17)30206-1.
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- Kahn, Kathleen, Mark A. Collinson, James Hargreaves, SAMUEL J CLARK, and Stephen M. Tollman. 2005. "Socio-economic Status and Child Mortality in a Rural sub-District of South Africa." Chap. 5 in *Measuring Health Equity in Small Areas: Findings from Demographic Surveillance Systems*, edited by INDEPTH Network, 67–85. Aldershot: Ashgate Publishing Ltd.
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## Working Papers

**NB:** The [dark blue](#) text contains links to download a PDF of the working paper.

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CLARK, SAMUEL J, Tyler McCormick, Zehang Li, and Jon Wakefield. 2013. “InSilicoVA: A Method to Automate Cause of Death Assignment for Verbal Autopsy.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 133. <http://www.csss.washington.edu/Papers/wp133.pdf>.

Wheldon, Mark, Adrian Raftery, SAMUEL J CLARK, and Patrick Gerland. 2013. “Bayesian Reconstruction of Two-Sex Populations by Age: Estimating Sex Ratios at Birth and Sex Ratios of Mortality.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 138. <http://www.csss.washington.edu/Papers/wp138.pdf>.

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- CLARK, SAMUEL J, Jon Wakefield, Tyler McCormick, and Michelle Ross. 2012. “HYAK Mortality Monitoring System: Innovative Sampling and Estimation Methods.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 118: 23. <http://www.csss.washington.edu/Papers/wp118.pdf>.
- McParland, Damien, Isobel Gormley, SAMUEL J CLARK, Tyler McCormick, Chodziwadziwa Kabudula, and Mark Collinson. 2012. “Clustering South African Households Based on their Asset Status Using Latent Variable Models.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 121: 28. <http://www.csss.washington.edu/Papers/wp121.pdf>.
- Wheldon, Mark C., Adrian E. Raftery, and SAMUEL J CLARK. 2012. “Bayesian Reconstruction of Past Populations and Vital Rates by Age for Developing and Developed Countries.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 117. <http://www.csss.washington.edu/Papers/wp117.pdf>.
- CLARK, SAMUEL J, and David J. Sharrow. 2011. “Contemporary Model Life Tables for Developed Countries: An Application of Model-based Clustering.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 107: 38. <http://www.csss.washington.edu/Papers/wp107.pdf>.
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- CLARK, SAMUEL J, Jason Thomas, and Le Bao. 2010. “Estimates of Age-Specific Reductions in HIV Prevalence in Uganda: Bayesian Melding Estimation and Probabilistic Population Forecast with an HIV-enabled Cohort Component Projection Model.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 106: 49. <http://www.csss.washington.edu/Papers/wp106.pdf>.



- Sharrow, David, SAMUEL J CLARK, Mark A. Collinson, Kathleen Kahn, and Stephen M. Tollman. 2010. “The Age-Pattern of Increases in Mortality Affected by HIV: Bayesian Fit of the Heligman-Pollard Model to Data from the Agincourt Health and Demographic Surveillance System Field Site in Rural Northeast South Africa.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 102: 54. <http://www.csss.washington.edu/Papers/wp102.pdf>.
- Collinson, Mark A., SAMUEL J CLARK, Annette A.M. Gerritsen, Peter Byass, Kathleen Kahn, and Stephen M. Tollman. 2009. “The Dynamics of Poverty and Migration in a Rural South African Community, 2001-2005.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 92: 38. <http://www.csss.washington.edu/Papers/wp92.pdf>.
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- CLARK, SAMUEL J, Jeff Eaton, Michelle M. Elmquist, Natalie R. Ottenweiller, and Jenna K. Snavely. 2008. “Demographic Consequences of HIV Epidemics and Effects of Different Male Circumcision Intervention Designs: Suggestive Findings from Microsimulation.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 85: 49. <http://www.csss.washington.edu/Papers/wp85.pdf>.
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- Alkema, Leontine, Adrian E. Raftery, and SAMUEL J CLARK. 2007. “Probabilistic Projections of HIV Prevalence using Bayesian Melding.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 69: 19. <http://www.csss.washington.edu/Papers/wp69.pdf>.
- McCormick, Tyler H., Zehang Richard Li, Clara Calvert, Amelia C. Crampin, Kathleen Kahn, and SAMUEL J CLARK<sup>†</sup>. 2014, updated 2015. “Probabilistic Cause-of-Death Assignment using Verbal Autopsies.” *arXiv Preprint*, no. arXiv:1411.3042. <https://arxiv.org/abs/1411.3042>.

## Recent Invited Conference & Working Group Contributions

- CLARK, SAMUEL J. 2017. Participant, WHO Maternal and Child Epidemiology Estimation Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: November 2017.
- CLARK, SAMUEL J. 2017. Participant, INDEPTH Founders’ Meeting. Accra, Ghana: December 2017.

- CLARK, SAMUEL J. 2017. Presenter, Swiss TPH Colloquium. Sponsored by Swiss TPH. Swiss Tropical and Public Health Institute (Swiss TPH), Basel, Switzerland: June 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: September 2017.
- CLARK, SAMUEL J. 2017. Participant, Swiss TPH Verbal Autopsy and Sampling Meeting. Sponsored by Swiss TPH and D4H. Swiss Tropical and Public Health Institute (Swiss TPH), Basel, Switzerland: August 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Regional Office, Accra, Ghana: December 2017.
- CLARK, SAMUEL J. 2017. Participant/Presenter, Human Mortality Database Symposium. Sponsored by the Human Mortality Database (HMD) Project. Berlin, Germany: May 2017.
- CLARK, SAMUEL J. 2017. Scientific Advisory Committee Member, ALPHA Network Scientific Advisory Committee Meeting. Sponsored by ALPHA Network. Nairobi, Kenya: March 2017.
- CLARK, SAMUEL J. 2017. Participant in Gulf Research Program Opportunity Analysis Meeting *Tracking Coastal Community Resilience to Environmental Disasters* sponsored by the National Academies of Sciences (NAS). NAS, Washington, D.C.: February 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Reference Group on Health Statistics. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2017.
- CLARK, SAMUEL J. 2017. *Small Area Estimates of Child Mortality*. Participant/Presenter at UN Inter-agency Group for Child Mortality Estimation Technical Advisory Group Meeting. Sponsored by UNICEF. UNICEF Headquarters, New York, USA: May 2017 **and** December 2017.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2016.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Civil Registration and Vital Statistics Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2016.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: July 2016.
- CLARK, SAMUEL J. 2016. Panelist at UN Statistics (UNSD) Meeting *Global Preparatory Seminar for the United Nations Data Forum*. Sponsored by UNSD. Guilin, China: September 2016.
- CLARK, SAMUEL J. 2016. *Small Area Estimation of Child Mortality from DHS Surveys: Discrete- and Continuous-Space Approaches*. Participant/Presenter at UN Inter-agency

- Group for Child Mortality Estimation Technical Advisory Group Meeting. Sponsored by UNICEF. UNICEF Headquarters, New York, USA: October 2016.
- CLARK, SAMUEL J. 2015. Panelist, Official Statistics Track at *The Cartagena Data Festival: Better Data for a Better Tomorrow*. Sponsored by multiple sponsors including: UNDP, UNFPA, International Union for the Scientific Study of Population (IUSSP), ODI, Paris21, Data Pop, Cepel and Africa Gathering. Cartagena, Colombia: April 2015.
- CLARK, SAMUEL J. 2015. Panelist, ‘Data Analysis & Use’, at *UNICEF Data For Children Forum*. Sponsored by UNICEF. UN Headquarters, New York: September 11, 2015.
- CLARK, SAMUEL J. 2015. IUSSP Roundtable at *The Cartagena Data Festival: Better Data for a Better Tomorrow*. Sponsored by multiple sponsors including: UNDP, UNFPA, International Union for the Scientific Study of Population (IUSSP), ODI, Paris21, Data Pop, Cepel and Africa Gathering. Cartagena, Colombia: April 2015.
- CLARK, SAMUEL J. 2015. Panelist and Presenter, Session 4 ‘Demographic Evidence from Civil Registration Systems, Health Information Systems and Other Administrative Data Sources, Including Insights Provided by Health and Demographic Surveillance Sites’ at *Expert Group Meeting on ‘Strengthening the Demographic Evidence Base for the Post-2015 Development Agenda’*. Sponsored by the Population Division of the Department of Economic and Social Affairs of the United Nations. UN Headquarters, New York: October 5-6, 2015.
- CLARK, SAMUEL J. 2015. *Simple, Parameterized Model of Age Patterns: Ideas for Incorporating HIV Prevalence and ART Coverage into Models of Age-Specific Mortality*. Presentation by CLARK, SAMUEL J at *UNAIDS Reference Group Meeting*. Sponsored by UNAIDS. Boston: June 2015.
- CLARK, SAMUEL J. 2014. Participant at *IUSSP Expert Meeting on Demography and the Post-2015 Data Revolution*. Sponsored by International Union for the Scientific Study of Population (IUSSP). Paris: 2014.
- CLARK, SAMUEL J. 2014. *Introduction to Discussion on Recent Death Methods*. Conference Presentation by CLARK, SAMUEL J at *WHO Technical Meeting: Improving Mortality Statistics as part of Strengthening Civil Registration and Vital Statistics Systems*. Sponsored by WHO. Geneva: 2014.
- CLARK, SAMUEL J. 2014. *Potential Ideas for Age-specific Model: HIV Cohort Component Model: Add ART?* Conference Presentation by CLARK, SAMUEL J at *Meeting of the UNAIDS Reference Group on Modeling, Estimates and Projections*. Sponsored by UNAIDS. Seattle: 2014.
- CLARK, SAMUEL J, Tyler McCormick, and Zehang Li. 2014. *InSilicoVA: An Evolution of InterVA*. Conference Presentation by CLARK, SAMUEL J at *WHO Technical Meeting: Verbal Autopsy*. Sponsored by WHO. Geneva: April, 2014.
- CLARK, SAMUEL J, Tyler McCormick, and Zehang Li. 2014. *Verbal Autopsy: Observations on Comparability & Cause Assignment Methods*. Conference Presentation by CLARK,

SAMUEL J at *WHO Technical Meeting: Verbal Autopsy*. Sponsored by WHO. Geneva: 2014.

CLARK, SAMUEL J, Tyler McCormick, Jon Wakefield, and Michelle Ross. 2014. *HYAK Mortality Monitoring System*. Conference Presentation by CLARK, SAMUEL J at *WHO Technical Meeting: Improving Mortality Statistics as part of Strengthening Civil Registration and Vital Statistics Systems*. Sponsored by WHO. Geneva: 2014.

## Professional Activities

- 2018 – 2021: Elected member of the International Union for the Scientific Study of Population (IUSSP) Council
- 2016/17 – : Article reviews for various journals
- 2015: External review for tenure process and article reviews for various journals
- 2014 – : Participate in UNAIDS Reference Group on Estimates, Modeling and Projections
- 2014 – : Participate in WHO Working Group on Civil Registration and Vital Statistics
- 2014 – : Participate in WHO Working Group on Verbal Autopsy
- 2014: Serve on the European Union’s European Food Safety Authority (EFSA) Board of Experts to advise on population modeling for use in studies to understand the risk of zoonotic transmission of animal pathogens to human populations
- 2013: Co-organized four sessions for the annual meeting of the Population Association of America in Boston, 2014
- 2012 – 2013: Participation on NIH review panels
- 2012 – : Member of the Editorial Board of the journal *American Sociological Review*
- 2012: Organized two sessions for the annual meeting of the Population Association of America in New Orleans, 2013
- 2012: External review for tenure process and article reviews for various journals
- 2012: Participation on two NIH review panels
- 2011: Participation on a NSF review panel
- 2010 – : Scientific Advisory Committee for the INDEPTH Network
- 2010 – 2012: Deputy Editor (one of twelve) of the journal *Demography*
- 2008 – : Senior advisor/co-applicant on current round of core funding for Agincourt Health and Demographic Surveillance System site run by the School of Public Health, University of the Witwatersrand, South Africa
- 2008 – : Member of Editorial Board for INDEPTH Network Mortality Project

## Curriculum Vitae – Samuel J. Clark

- 2006 – : Advisory Group for planned INDEPTH Network Data System initiative
- 2005 – 2010: Scientific Advisory Committee for the South African Centre for Epidemiological Modeling and Analysis (SACEMA)
- 2005 – : Scientific Advisory Committee for the ALPHA Network of epidemiological field sites in Africa, coordinated at the London School of Hygiene and Tropical Medicine
- 1998 – : Participant and sometimes co-Coordinator of Technical Working Group of the INDEPTH Network
- 2008 – 2010: Participation on NIH review panels
- 2008 – 2009: Reviewed grant applications for Swedish National Science Foundation
- 2008 – 2009: Invited participation in Wellcome Trust ‘Data Sharing’ policy planning workshop
- 2007 – 2008: Invited presentation in colloquium series of the Graduate Group in Demography at the University of Pennsylvania
- 2007 – 2008: Invited presentation to a Wellcome Trust-organized panel discussing ‘North-South Networking’ in the context of population and health research
- 2006 – 2007: Served on Demography Masters Examination Committee, Commerce Department, University of Cape Town, South Africa
- 2006 – 2007: Served on Field Epidemiology Masters Examination Committee, School of Public Health, University of the Witwatersrand, South Africa
- 2004 – 2005: Executive Committee of the South African Centre for Epidemiological Modeling and Analysis (SACEMA)

## Honors, Awards & Small Grants

- 2013: Co-recipient of INDEPTH Network ‘2013 INDEPTH Prize for Extraordinary Research in Population and Health at INDEPTH Sites’, awarded at 2013 INDEPTH International Scientific Conference in Johannesburg, South Africa for article published in PLoS Medicine on Agincourt Health and Demographic Surveillance System Data
- 2010: ‘Graduate Mentorship Award,’ Department of Sociology, University of Washington
- 2009: Co-recipient of INDEPTH Network ‘2009 INDEPTH Prize for Extraordinary Research in Population and Health at INDEPTH Sites’, awarded at 2009 INDEPTH AGM in Pune, India for article published in Lancet on Agincourt Health and Demographic Surveillance System Data
- 1996 – 1997: Fulbright Student Fellowship, University of Pennsylvania and the Institute for African Studies at the University of Zambia, Zambia

- 1995 – 1998: National Science Foundation Graduate Research Fellow, University of Pennsylvania
- 1994 – 2000: William Penn Fellow, University of Pennsylvania
- 1991: Caltech Summer Undergraduate Research Fellowship grant to collect demographic data in Sinafala village, Southern Zambia
- 1990: Caltech Summer Undergraduate Research Fellowship grant to study neural cell differentiation and development, Caltech
- 1989: Caltech Summer Undergraduate Research Fellowship grant to teach Calculus at the University of Windhoek, Namibia
- 1988: National Merit Scholar

## Selected Recent Talks, Papers & Presentations

- Calvert, Clara, Alison Price, Emma Slaymaker, Georges Reniers, Kobus Herbst, Denna Michael, SAMUEL CLARK, Basia Zaba, and Amelia Crampin. 2017. *Beyond AIDS-related deaths: calculating the risk of non-communicable disease mortality attributable to HIV from verbal autopsy data*. Presentation by Calvert, Clara at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- CLARK, SAMUEL. 2017. *A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality*. Presentation by CLARK, SAMUEL at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Houle, Brian, Nicole Angotti, Enid Schatz, F. Xavier Gómez-Olivé, SAMUEL CLARK, Jill Williams, Chodziwadziwa Kabudula, Stephen Tollman, and Jane Menken. 2017. *Sexual behavior and HIV risk across the life course in rural South Africa: trends and comparisons*. Presentation by Houle, Brian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Houle, Brian, Chodziwadziwa Kabudula, Kobus Herbst, and SAMUEL CLARK. 2017. *A mother's death and child survival: Comparisons between two demographic surveillance sites in rural South Africa*. Poster presentation by Houle, Brian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Houle, Brian, Sanyu A. Mojola, Nicole Angotti, Enid Schatz, F. Xavier Gómez-Olivé, SAMUEL CLARK, Jill Williams, Chodziwadziwa Kabudula, Stephen Tollman, Kathleen Kahn, and Jane Menken. 2017. *Sexual Behavior and HIV Risk Across the Life Course in Rural South Africa: Trends and Comparisons*. Poster presented by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.

- Kabudula, Chodziwadziwa, Brian Houle, Mark Collinson, Kathleen Kahn, F. Xavier Gómez-Olivé, Stephen Tollman, and SAM CLARK. 2017. *Social Patterns and Differentials in the Mortality Transition in Rural South Africa: Findings From Population Surveillance in Agincourt, 1993–2013*. Presentation by Kabudula, Chodziwadziwa at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.
- Kabudula, Chodziwadziwa, Brian Houle, Mark Collinson, Kathleen Kahn, F. Xavier Gómez-Olivé, Stephen Tollman, and SAMUEL CLARK. 2017. *Persistent socioeconomic gradient in HIV/AIDS mortality in the era of antiretroviral therapy in rural South Africa: Findings from population surveillance in Agincourt, 2001- 2013*. Poster presentation by Kabudula, Chodziwadziwa at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Pantazis, Athena, and SAMUEL CLARK. 2017. *Age-Specific Fertility Regimes and Fertility Transition: Testing African Exceptionalism and the Implicit Relationships between Determinants of Fertility Decline and Fertility Age Patterns*. Poster presentation by CLARK, SAMUEL at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Sharrow, David J, Jessica Godwin, Yanjun He, SAM CLARK, and Adrian Raftery. 2017. *Probabilistic Population Projections for Countries With Generalized HIV/AIDS Epidemics*. Presentation by Godwin, Jessica at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.
- Sharrow, David, Jessica Godwin, Yanjun He, SAMUEL CLARK, and Adrian Raftery. 2017. *Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics*. Presentation by Rafter, Adrian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- CLARK, SAMUEL J. 2016. *Statistical Demography: Innovative Approaches to Life Expectancy and Mortality*. Session Discussion by CLARK, SAMUEL J at *Annual Meeting of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.
- CLARK, SAMUEL J. 2016. *HIV Mortality Trends in Africa in the Treatment Era: New Evidence from the ALPHA Network of Community-based HIV Surveillance Studies – Verbal Autopsy: ALPHA Network Contributions*. Conference Presentation by CLARK, SAMUEL J at *21st International AIDS Conference (AIDS 2016)*. Durban, South Africa: July 2016.
- Houle, Brian, Athena Pantazis, Chodziwadziwa Kabudula, Stephen Tollman, and SAMUEL J CLARK. 2016. *Social Patterns and Differentials in the Fertility Transition Based on Population Surveillance: Rural South Africa, 1993 – 2013*. Presentation by Houle, Brian at

*The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.

McCormick, Tyler, Li Zehang, Clara Calvert, Amelia Crampin, Kathleen Kahn, and SAMUEL J CLARK. 2016. *Probabilistic Cause-of-death Assignment using Verbal Autopsies*. Poster presented by McCormick, Tyler at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.

CLARK, SAMUEL J, F. Xavier Gómez-Olivé, Brian Houle, Margaret Thorogood, Kerstin Klipstein-Grobusch, Chodziwadziwa Kabudula, Jill Williams, Jane Menken, and Stephen Tollman. 2015. *Cardiometabolic Disease Risk and HIV Status in Rural South Africa: Establishing a Baseline*. Conference Poster by CLARK, SAMUEL J at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

CLARK, SAMUEL J, Jon Wakefield, Tyler McCormick, and Michelle Ross. 2015. *HYAK Mortality Monitoring System: Innovative Sampling and Estimation Methods*. Conference Presentation by CLARK, SAMUEL J at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

Houle, Brian, SAMUEL J CLARK, Kathleen Kahn, Stephen M. Tollman, and Alicia Ely Yemin. 2015. *The Impact of Maternal Mortality on Children's Risk of Dying in Rural South Africa: Evidence from a Population-Based Surveillance Study (1992-2013)*. Conference Presentation by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

Pantazis, Athena, and SAMUEL J CLARK. 2015. *Modeling Age-Specific Fertility Curves to Understand Demographic Transition*. Conference Presentation by Pantazis, Athena at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

Sennott, Christie, Benn Sartorius, Jane Menken, SAMUEL J CLARK, Nicole Angotti, Kerstin Klipstein-Grobusch, and Stephen Tollman. 2015. *Births and HIV Status in Agincourt, Rural South Africa, 2010*. Conference Poster by Sennott, Christie at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

Sharrow, David, Yanjun He, SAMUEL J CLARK, and Adrian E. Raftery. 2015. *Probabilistic Projections of Mortality in Countries with Generalized HIV Epidemics for Use in Total Population Projection*. Conference Presentation by Sharrow, David at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.



## Students

A ★ indicates completed degree. A ⊙ indicates currently on leave or not enrolled.

### Ph.D.

- 2014 – : Jonathan Muir (Sociology): **committee chair**
- 2013 – : William Brown (Anthropology): graduate school representative
- 2012 – 2016: ★ Athena Pantazis (Sociology): **committee chair**
- 2012 – : ⊙ Benjamin Hanowell (Anthropology): committee member
- 2010 – 2015: ★ Cara Margherio (Sociology): **committee chair**
- 2010 – 2011: ★ Brian Houle (Sociology): **committee chair**
- 2010: ★ External Examiner for Charles Kimpolo, PhD in Computational and Applied Mathematics, University of the Witwatersrand
- 2010 – 2017: ★ Chodziwadziwa Kabudula (School of Public Health, University of the Witwatersrand, Johannesburg, South Africa): acting **committee chair**
- 2009 – 2012: ★ Romesh Silva (Demography, UC Berkeley): committee member
- 2009 – 2011: ★ Ting Li (Quantitative Ecology and Resource Management): committee member
- 2009 – 2011: ★ Le Bao (Statistics): committee member
- 2008 – 2013: ★ Mark Wheldon (Statistics): committee member
- 2008 – 2011: ⊙ Greg Matthews (Sociology): **committee chair**
- 2008 – 2013: ★ David Sharrow (Sociology): **committee chair**
- 2007 – : ⊙ Eric Gleave (Sociology): committee member
- 2007 – 2013: ★ Devon Hamilton (Sociology): committee member
- 2006 – 2009: ★ Jason Thomas (Sociology): **committee chair**
- 2005 – 2008: ★ Leontine Alkema (Statistics): committee member

### Masters

- 2012 – 2014: ★ Janjun He (Statistics): committee member
- 2011 – 2012: ★ Athena Pantazis (Sociology): **committee chair**
- 2010: ★ External Examiner for William Msemburi, Masters of Philosophy in Demography, University of Cape Town
- 2010 – 2010: ★ Ryoko Takahashi (Department of Health Services, School of Public Health): committee member

- 2009 – 2010: ★ Jennifer Chunn (Statistics): committee member
- 2007 – 2009: ★ Kerry MacQuarrie (Sociology): **committee chair**
- 2007 – 2009: ★ Cara Margherio (Sociology): **committee chair**
- 2007 – 2009: ★ Jongjit Rittirong (Sociology): **committee chair**
- 2007 – 2008: ★ Jodi Kurtz (Sociology): committee member

## Research & Professional Interests

### Research

My research interests include African Demography, demographic methods, mathematical modeling of population processes with specific focus on individual-level models and statistical methods for quantifying uncertainty, the theory and practice of temporal databases as they relate to population data, and the ethics, policies and procedures necessary to archive, pool, share and analyze longitudinal population data generated by multiple institutions.

Recent research topics include adaptation of Bayesian melding methods to epidemiological modeling and population projection, the design and implementation of a two-sex, stochastic microsimulation model of an African population with HIV, the formulation of temporal relational database designs for demographic and health research, the creation of a component model of mortality for Africa, and the identification of general mortality patterns for Africa based on new empirical data.

Recent professional activities outside of the University of Washington include participation in expert advisory groups at the WHO for verbal autopsy and civil registration/vital statistics and advisory meetings supporting the creation of the Wellcome Trust's new policy regarding data sharing; a substantial contribution of time to the development of the INDEPTH Network of demographic and health surveillance sites in the developing world: (<http://www.indepth-network.org>); serving on the Executive Committee and Scientific Advisory Committee of the new South African Centre for Epidemiological Modeling and Analysis (SACEMA – funded by the South African Department of Science & Technology); Serving on the Scientific Advisory Committee for the ALPHA Network of longitudinal HIV epidemiology sites in Africa coordinated at the London School of Hygiene and Tropical Medicine; contributions to teaching and student supervision at the Masters and PhD level in the School of Public Health at the University of the Witwatersrand in Johannesburg, South Africa; and substantial contributions to statistical analysis, information technology support, scientific writing and grant writing for the Agincourt health and demographic surveillance system field site attached to the School of Public Health at the University of the Witwatersrand, South Africa.

## Africa

I was born in Kenya and lived mostly in rural parts of East Africa until the age of 15. That formative experience has motivated my continuing commitment to Africa and shaped the trajectory of my professional activities. In the broadest sense, my professional life is concerned with better understanding the challenges facing Africa and Africans and contributing to the design and testing of interventions to improve the well being of Africans. Over the past two decades I have consistently contributed to research relevant to Africans, to building institutions in Africa and for Africans, and to participating in the education of Africans. Since its inception in 1998, I have participated in a range of research, training and institution-building initiatives of the INDEPTH Network of health and demographic surveillance system sites (comprised of 43 such sites in Africa and Asia – headquartered in Accra, Ghana), and I continue to support INDEPTH as a current member of the Scientific Advisory Committee, lead editor of an ongoing multi-site research initiative to describe all-cause mortality patterns in Africa and Asia, and significant contributor to grant writing initiatives in support of strategic scientific and training efforts planned by the Network. For the past fifteen years I have had a very close collaboration with the MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, University of the Witwatersrand, South Africa. In addition to contributing to research and scientific planning at the site, I have made consequential contributions to the growth and development of the Agincourt Unit's rural field site. Over a number of years I have played a key role in building the data and IT infrastructure at the site, and I have been a *de facto* advisor in many of the key development and institution-building decisions taken at the field site level. Most recently I have co-led an HIV and non-communicable disease biomarkers survey conducted at the field site, and in the process contributed in useful ways to the research infrastructure and procedures at the field site. During a period of nearly five years when I lived in South Africa, I also contributed to the design and implementation of a Masters degree programs at the School of Public Health, University of the Witwatersrand, initially funded by the Hewlett Foundation. More recently I have contributed to the ALPHA Network of HIV cohort studies in Africa by participating in grant writing, serving on the Scientific Advisory Committee and participating in training and research activities sponsored by the Network. All of my work with the INDEPTH and ALPHA Networks and the Agincourt site continues.

## Teaching & Instruction

- |       |  |
|-------|--|
| 2017: | Sociology 7753: Introduction to Demographic Analysis   |
| 2017: | (twice) Sociology 5450: Surviving in South Africa: Contemporary Health and Population Issues |
| 2016: | Sociology 5450: Surviving in South Africa: Contemporary Health and Population Issues         |

Curriculum Vitae – Samuel J. Clark

- 2014: Sociology Study Abroad, Summer B, Agincourt Health and Demographic Surveillance System Site, Acornhoek, South Africa: Measuring and Understanding Health and Population in South Africa
- 2014 – 2016: Sociology 201: Surviving in South Africa: Contemporary Health and Population Issues
- 2010 – 2012: Sociology/CSSS/Statistics 221: Statistical Concepts and Methods for the Social Sciences. A course joint listed by Sociology, CSSS and Statistics that presents an introduction to statistical concepts and methods for social scientists
- 2005 – 2016: Sociology 433/533: Introduction to Demographic Methods. A course taught in the Sociology Department at the University of Washington that presents an introduction to core demographic methods and techniques
- 2005 – 2009: Sociology 220: Introduction to Sociological Methods. A course taught in the Sociology Department at the University of Washington that presents an introduction to experimental design and statistical methods for undergraduates majoring in Sociology
- 2005 – 2007: During summer: Three one-week modules covering the theory and practice of data management in the context of Demographic Surveillance Systems. These modules form the Data Management component of the INDEPTH Network-sponsored M.Sc. degree program at the School of Public Health, University of the Witwatersrand, South Africa
- 2006 – 2007: Sociology 401: Population and Africa. A course taught in the Sociology Department at the University of Washington that presents historical and contemporary topics concerning population in Africa, with an emphasis on the current impacts of HIV/AIDS on African populations
- 2007: CSDE 555: Health Metrics. A course taught through the Center for Studies in Demography and Ecology at the University of Washington introducing the basic methods of Health Metrics
- 2004: Taught one one-week module on survival analysis to Masters level students at the School of Public Health at the University of the Witwatersrand, South Africa
- 2004: With Bruce MacLeod co-facilitated a workshop for data managers from the INDEPTH Network sponsored by the INDEPTH Network. The workshop spanned one week and introduced data managers to various analytical techniques designed specifically to extract and analyze data stored in the complex temporal relational databases used in demographic and health surveillance

- 2003: Organized, prepared and taught (with Kobus Herbst) a workshop titled The Relational Database and the Structured Query Language in the Context of Health and Population Surveillance sponsored by the INDEPTH Network and funded by the NIA. The workshop spanned one week and introduced data managers from the INDEPTH Network to the Relational Model of Data, the Structured Query Language and specific relational database schemas used in Demographic Surveillance, all within the context of demographic and health surveillance methodologies
- 2003: Taught one one-week module on survival analysis to Masters level students at the School of Public Health at the University of the Witwatersrand, South Africa
- 2002: Taught two one-week modules in quantitative demographic methods and survival analysis to Masters level students at the School of Public Health, University of the Witwatersrand, South Africa
- 2001: Supervised the completion of a Masters degree in Population Studies at the University of Natal, Durban, South Africa examining the impact of various demographic, economic and social shocks on school drop out rates in KwaZulu-Natal, South Africa
- 1999: Teaching Assistant for course on measuring and interpreting mortality at the University of Pennsylvania
- 1989: Taught two ten-week undergraduate courses in Calculus and oversaw student Physics laboratory sessions at the University of Namibia, Windhoek, Namibia

## Field Work

- 2015: Co-organized and led conference of African physicians to provide data on symptom-cause relationship for use with automated methods to assign cause of death from verbal autopsy data
- 2015: Several weeks in South Africa working with the Agincourt and Africa Centre demographic surveillance system (DSS) field sites on a number of ongoing projects and attending and contributing to the International Scientific Advisory Committee meeting for the Agincourt site
- 2014: Several weeks in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]
- 2013: Two weeks in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]

Curriculum Vitae – Samuel J. Clark

- 2012: Three weeks in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]
- 2011: Six weeks in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]
- 2009: Summer in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]
- 2007: Summer in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects [See 2006, below]
- 2006: Summer in South Africa working with the Agincourt demographic surveillance system (DSS) field site on a number of ongoing projects, including migration, SES, mortality, fertility and data management
- 2001 – 2004: Resident in South Africa to work with the Agincourt DSS field site operated by the School of Public Health of the University of the Witwatersrand and with colleagues at the School of Computational and Applied Mathematics at the University of the Witwatersrand. Work conducted during this time briefly described above under the Research Interests and Teaching sections
- 1997: One year working in Southern Zambia: 1) maintaining and improving the demographic surveillance system that I was primarily responsible for instituted in the Gwembe Valley over the previous few years, 2) collecting and preserving all available information surviving from the 1980 and 1990 censuses of Zambia, including raw data, metadata and maps, 3) building permanent infrastructure for the Gwembe Tonga Research Project, and 4) maintaining two other studies related to the Gwembe Tonga Research Project
- 1996: Six weeks monitoring and maintaining the Gwembe Tonga Research Project's data collection effort in the Gwembe Valley, Southern Zambia
- 1996: Three weeks monitoring and maintaining Gwembe Tonga Research Project data collection effort in the Gwembe Valley, Southern Zambia
- 1995: Six weeks selecting and training research assistants in four villages in the Gwembe Valley, Southern Zambia for a continuous demographic/economic data gathering system that I was primarily responsible for designing
- 1994: Four weeks working with a team of demographic researchers from the University of Pennsylvania conducting a social networks survey of two rural villages in Southwest Kenya
- 1991: Six weeks updating a demographic census in Sinafala, a rural village in Gwembe Valley, Southern Zambia

Curriculum Vitae – Samuel J. Clark

1989: Ten weeks working in the Mathematics and Physics departments of the University of Namibia, Windhoek, Namibia teaching Calculus and overseeing Physics laboratories