

# Curriculum Vitae

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## Samuel J. Clark

### Personal & Contact Information

Name: Samuel Joseph Clark

Mailing address: 238 Townshend Hall  
1885 Neil Avenue Mall  
Columbus OH, 43210  
United States

Office phone: +1 (614) 292-6681

Office fax: +1 (614) 292-6687

Cell phone: +1 (206) 303-9620

Email: clark.2962@osu.edu  
work@samclark.net

Office: Room 60D, Townshend Hall (basement)  
Columbus Campus  
The Ohio State University

### 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
- 2008: 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

Vital Strategies contract: \$69,000. 2018. *The openVA Pipeline Phase II*. CLARK, SAMUEL (PI). Period: July 2017–March 2019 **Role: Project Leader**. Principal Author: S. J. CLARK. Hosting Institution: OSU.

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

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).

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

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 responsibility 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 [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<sup>†</sup>, SAMUEL J. 2018 (In Press). “A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality.” *Demography* (*preprint: arXiv:1612.01408v1*).
- Li\*, Zehang, Yuan Hsiao\*, Jessica Godwin\*, Bryan Martin\*, Jon Wakefield<sup>†</sup>, and SAMUEL J CLARK<sup>†</sup>. 2018 (In Press). “Changes in the Spatial Distribution of the Under-Five Mortality Rate: Small-area Analysis of 122 DHS Surveys in 262 Subregions of 35 Countries in Africa.” *PLoS ONE*.
- CLARK<sup>†</sup>, SAMUEL J, Jon Wakefield, Tyler H. McCormick, and Michelle Ross\*. 2018. “Hyak Mortality Monitoring System: Innovative Sampling and Estimation Methods - Proof of Concept by Simulation.” *Global Health, Epidemiology and Genomics* 3 (e3). doi:10.1017/ghg.2017.15.
- Houle, Brian, Frances Xavier Gómez-Olivé, Nicole Angotti, Jane Menken, and SAMUEL J CLARK. 2018. “Fieldworker Effects on Substance Use Reporting in a Rural South African Setting.” *Journal of Alcohol and Drug Research* 7 (1): 29–39. doi:10.7895/ijadr.246.
- Houle, Brian, Sanyu Mojola, Nicole Angotti, Enid Schatz, Frances Xavier Gómez-Olivé, SAMUEL J CLARK, Jill Williams, Chodziwadziwa Kabudula, Stephen Tollman, and Jane Menken<sup>†</sup>. 2018. “Sexual Behavior and HIV Risk across the Life Course in Rural South Africa: Trends and Comparisons.” *Psychological and Socio-medical Aspects of AIDS/HIV* 30 (11): 1435–1443. doi:10.1080/09540121.2018.1468008.
- Nichols, Erin K, Peter Byass, Daniel Chandramohan<sup>†</sup>, SAMUEL J CLARK, Abraham D Flaxman, Robert Jakob, Jordana Leitao, Nicolas Maire, Chalapati Rao, Ian Riley, and Philip Setel. 2018. “The WHO 2016 Verbal Autopsy Instrument: An International Standard Suitable for Automated Analysis by InterVA, InsilicoVA, and Tariff 2.0.” *PLoS Medicine* 15 (1): e1002486. doi:10.1371/journal.pmed.1002486.
- Pantazis\*, Athena, and SAMUEL J CLARK<sup>†</sup>. 2018. “A Parsimonious Characterization of Change in Global Age-Specific and Total Fertility Rates.” *PLoS ONE* 13 (e0190574). doi:10.1371/journal.pone.0190574.
- Sharrow, David J, Jessica Godwin\*, Yanjun He\*, SAMUEL J CLARK, and Adrian E Raftery<sup>†</sup>. 2018. “Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics.” *Population Studies*: preprint: <https://arxiv.org/pdf/1609.04383.pdf>. doi:10.1080/00324728.2017.1401654.
- Wakefield, Jon, Geir-Arne Fuglstad, Andrea Riebler, Jessica Godwin, Katie Wilson, and SAMUEL J CLARK. 2018. “Estimating Under-Five Mortality in Space and Time in a Developing World Context.” *Statistical Methods in Medical Research*. doi:10.1177/0962280218767988.
- Kabudula\*, Chodziwadziwa W, Brian Houle, Mark A Collinson, Kathleen Kahn, SAMUEL J CLARK<sup>†</sup>, 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.
- 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.
- 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* 28 (2): 112–132. 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. “Space-time Smoothing of Complex Survey Data: Small Area Estimation for Child Mortality.” *Annals of Applied Statistics, The Annals of Applied Statistics* 9 (4): 1889–1905. doi:10.1214/15-A0AS872.
- 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.



- 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: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.
- 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<sup>†</sup>, 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.
- Alkema\*, Leontine, Adrian E. Raftery†, and SAMUEL J CLARK. 2007. “Probabilistic Projections of HIV Prevalence Using Bayesian Melding.” *The Annals of Applied Statistics* 1 (1): 229–248.
- 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.
- CLARK†, SAMUEL J, Mark Collinson, Kathleen Kahn, Stephen Tollman, and Kyle Drullinger\*. 2007. “Returning Home to Die: Circular Labour Migration and Mortality in South Africa.” *Scandinavian Journal of Public Health* 35 (Suppl 69): 35–44.
- Kahn†, Kathleen, Stephen Tollman, Mark A. Collinson, SAMUEL J CLARK, Rhian Twine, Benjamin D Clark, Mildred Shabangu, Frances Xavier Gómez-Olivé, Obed Mokoena, and Michel Garenne. 2007. “Research into Health, Population, and Social Transitions in Rural South Africa: Data and Methods of the Agincourt Health and Demographic Surveillance System.” *Scandinavian Journal of Public Health* 35 (Suppl 69): 8–20.
- Adjuik, Martin, Tom Smith, SAM CLARK, Jim Todd, Anu Garrib, Yohannes Kinfu, Kathy Kahn, Mitiki Mola, Ali Ashraf, Honorati Masanja, Ubaje Adazu, Jahit Sacarlal, Nurul Alam, Adama Marra, Adjima Gbangou, Eleuther Mwageni, and Fred Binka†. 2006. “Cause-Specific Mortality Rates in Sub-Saharan Africa and Bangladesh.” *Bulletin of the World Health Organization* 84 (3): 181–188. PMID: PMC2627285.
- CLARK†, SAMUEL J. 2006. “A General Temporal Data Model and the Structured Population Event History Register.” *Demographic Research* 15 (7): 181–252.
- Benzler†, Justus, and SAMUEL J CLARK†. 2005. “Toward a Unified Timestamp with Explicit Precision.” *Demographic Research* 12 (6): 107–140.

Hargreaves<sup>†</sup>, James R., Mark A. Collinson, Kathleen Kahn, SAMUEL J CLARK, and Stephen M. Tollman. 2004. “Childhood Mortality among Former Mozambican Refugees and Their Hosts in Rural South Africa.” *International Journal of Epidemiology* 33:1271–1278.

CLARK\*, SAMUEL J, Elizabeth Colson, James Lee<sup>†</sup>, and Thayer Scudder. 1995. “Ten Thousand Tonga: A Longitudinal Anthropological Study from Southern Zambia: 1956-1991.” *Population Studies* 49 (1): 91–109.

### In Submission/Review Process

Byass, Peter, Laith Hussain-Alkhateeb, Lucia D’Ambruoso, SAMUEL J CLARK, Justine Davies, Edward Fottrell, Jon Bird, Chodziwadiwa Kabudula, Stephen Tollman, Kathleen Kahn, Linus Schiöler, and Max Petzold. 2019 (Submitted). “An Integrated Approach to Processing WHO-2016 Verbal Autopsy Data: the InterVA-5 Model.”

Jha, Prabhat, Dinesh Kumar, Rajesh Dikshit, Atul Budukh, Rehana Begum, Prabha Sati, Patrycja Kolpak, Richard Wen, Shyamsundar J Raithatha, Utkarsh Shah, Zehang R Li, Lukasz Aleksandrowicz, Prakash Shah, Kapila Piyasena, Tyler H McCormick, Hellen Gelband, and SAMUEL J CLARK. 2019 (Submitted). “Computer Versus Physician Coding of Cause of Death for Verbal Autopsies: Randomised Trial of 9374 Deaths in 117 Villages in India.”

Li\*, Zehang (Richard), Tyler H McCormick, Tsuyoshi Kunihama, and SAMUEL J CLARK<sup>†</sup>. 2019 (Submitted). “Using Bayesian Latent Gaussian Graphical Models to Infer Symptom Associations in Verbal Autopsies.” *arXiv:1711.00877v3*.

Kunihama, Tsuyoshi, Zehang R Li, SAMUEL J CLARK<sup>†</sup>, and Tyler H McCormick. 2019 (R/R). “Bayesian Factor Models for Probabilistic Cause of Death Assessment with Verbal Autopsies.” *arXiv:1803.01327v2*.

### In Preparation

Manuscripts at an advanced stage with a complete draft that are nearly ready to submit.

CLARK<sup>†</sup>, SAMUEL J. 2019. “A Guide to Comparing the Performance of VA Algorithms.” *arXiv Preprint*, no. arXiv:1802.07807. <https://arxiv.org/abs/1802.07807>.

CLARK<sup>†</sup>, SAMUEL J, Martin Bratschi, Philip Setel, Erin Nichols, Carla Abouzahr, Don de Savigny, Zehang R Li, Tyler H McCormick, Robert Jakob, Peter Byass, Prabhat Jha, and Daniel Chandramohan. 2019. “Verbal Autopsy in Civil Registration and Vital Statistics: the Need for a Symptom-Cause Information Archive.”

CLARK<sup>†</sup>, SAMUEL J, Zehang R Li, and Tyler H McCormick. 2019. “Quantifying the Contributions of Training Data and Algorithm Logic to the Performance of Automated Cause-Assignment Algorithms for Verbal Autopsy.” *arXiv Preprint*, no. arXiv:1803.07141v2. <https://arxiv.org/abs/1803.07141>.

- Gómez-Olivé, F. Xavier, Brian Houle, Chodziwadziwa W. Kabudula, Nicole Angotti, Enid J. Schatz, Jane Menken, and SAMUEL J CLARK. 2019. “HIV Incidence among Older Adults in a Rural South African Setting: 2010-2015.”
- Houle, Brian, Shao-Tzu, Nicole Angotti, Enid Schatz, Chodziwadziwa Kabudula, F. Xavier Gómez-Olivé, Jane Menken, Sanyu Mojola, and SAMUEL J CLARK. 2019. “Patterns of HIV Risk and Protective Sexual Behaviours in Agincourt, Rural South Africa: Findings from the Ha Nakekela Population-Based Study of Ages 15 and Older.”
- Li\*, Zehang (Richard), Tyler H McCormick, and SAMUEL J CLARK<sup>†</sup>. 2019. “Bayesian Joint Spike-and-Slab Graphical Lasso.” *arXiv Preprint*, no. arXiv:1805.07051. <https://arxiv.org/abs/1805.07051>.
- Pantazis\*, Athena, and SAMUEL J CLARK<sup>†</sup>. 2018. “Age-Specific Fertility and Fertility Change: The Association between Determinants of Fertility Decline and Age-specific Fertility Curves.”

### 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.
- Sankoh<sup>†</sup>, Osman, Peter Byass, SAMUEL J CLARK, Philippe Bocquier, Alan Lopez, Don de Savigny, Anastasia Gage, Anna Mia Ekstrom, Barbara McPake, Carla Abouzahr, Cheryl Moyer, Harry Campbell, Jocalyn Clark, and Halima Mwenesi. 2017. “Why Population-based Data are Crucial to Achieving the Sustainable Development Goals.” *International Journal of Epidemiology*: 4–7. doi:10.1093/ije/dyx010.
- Sankoh<sup>†</sup>, Osman, and ... about 80 coauthors. 2015. “CHESS: An Innovative Concept for a New Generation of Population Surveillance.” *Lancet Global Health - Correspondance, Lancet Global Health* 3. doi:10.1016/S2214-109X(15)00180-1.
- Helleringer<sup>†</sup>, Stephane, Andrew Noymer, SAMUEL J CLARK, and Tyler H. McCormick. 2015 Correspondence. “Did Ebola Relatively ‘Spare’ Children?” *Lancet* 386 (10002): 1442–1443. doi:10.1016/S0140-6736(15)00415-8.

### Book Chapters

- Heuveline, Patrick, and SAMUEL J CLARK. 2011. “Model Schedules of Mortality.” Chap. 24 in *International Handbook of Adult Mortality*, edited by Richard Rogers and Eileen Crimmins, 511–531. International Handbooks of Population. Heidelberg: Springer.
- Collinson, Mark, Annette A.M. Gerritsen, SAMUEL J CLARK, Kathleen Kahn, and Stephen Tollman. 2009. “Migration and Socio-Economic Change in Rural South Africa, 2000-2007.” Chap. 6 in *The Dynamics of Migration, Health and Livelihoods: INDEPTH Network Perspectives*, edited by Mark Collinson, Kubaje Adazu, Michael White, and Sally Findley, 81–108. Farnham: Ashgate.

- CLARK, SAMUEL J. 2006. “Demographic Impacts of the HIV Epidemic and Consequences of Population-wide Treatment of HIV for the Elderly: Results from Microsimulation.” Chap. 3 in *Aging in Sub-Sahara Africa: Recommendations for Furthering Research*, edited by Barney Cohen and Jane Menken, 92–117. Washington, DC: The National Academy Press.
- Collinson, Mark A., Stephen M. Tollman, Kathleen Kahn, SAMUEL J CLARK, and Michel Garenne. 2006. “Highly Prevalent Circular Migration: Households, Mobility and Economic Status in Rural South Africa.” Chap. 8 in *African Migration in Comparative Perspective*, edited by Marta Tienda, Stephen M. Tollman, Eleanor Preston-Whyte, and S.E. Findlay, 194–216. Johannesburg: University of the Witwatersrand Press.
- Sankoh, Osman A., Pierre Ngom, SAMUEL J CLARK, Don de Savigny, and Fred Binka. 2006. “Levels and Patterns of Mortality at INDEPTH Demographic Surveillance Sites.” Chap. 7 in *Disease and Mortality in Sub-Saharan Africa, 2nd Edition*, edited by R. Feachem, D. Jamison, W.M. Makgoba, K. Rogo, K. Hofman, and E. Bos, 75–86. Oxford: Oxford University Press, for the World Bank.
- 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.
- Gwembe Tonga Research Project [Prepared by SAMUEL J. CLARK]. 2002. “Gwembe Demographic Surveillance System, Zambia.” Chap. 14 in *Population, Health, and Survival at INDEPTH Sites*, 1:183–188. INDEPTH Network Monograph Series: Demographic Surveillance Systems for Assessing Populations and their Health in Developing Countries. Ottawa: IDRC Press.
- INDEPTH Network [Prepared by SAMUEL J. CLARK and Pierre Ngom]. 2002. “Comparing Mortality Patterns in INDEPTH Sites.” Chap. 6 in *Population, Health, and Survival at INDEPTH Sites*, edited by INDEPTH Network, 1:51–82. Population and Health in Developing Countries. Ottawa: IDRC Press.
- INDEPTH Network [Prepared by SAMUEL J. CLARK]. 2002. “INDEPTH Mortality Patterns for Africa.” Chap. 7 in *Population, Health, and Survival at INDEPTH Sites*, edited by INDEPTH Network, 1:83–128. Population and Health in Developing Countries. Ottawa: IDRC Press.

## Working Papers

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

CLARK<sup>†</sup>, SAMUEL J. 2019. “A Guide to Comparing the Performance of VA Algorithms.” *arXiv Preprint*, no. arXiv:1802.07807. <https://arxiv.org/abs/1802.07807>.

- CLARK<sup>†</sup>, SAMUEL J, Zehang R Li, and Tyler H McCormick. 2019. “Quantifying the Contributions of Training Data and Algorithm Logic to the Performance of Automated Cause-Assignment Algorithms for Verbal Autopsy.” *arXiv Preprint*, no. arXiv:1803.07141v2. <https://arxiv.org/abs/1803.07141>.
- Kunihama, Tsuyoshi, Zehang R Li, SAMUEL J CLARK<sup>†</sup>, and Tyler H McCormick. 2018. “Bayesian factor models for probabilistic cause of death assessment with verbal autopsies.” *arXiv Preprint*, no. arXiv:1803.01327. <https://arxiv.org/abs/1803.01327>.
- Li\*, Zehang (Richard), Tyler H McCormick, and SAMUEL J CLARK<sup>†</sup>. 2018. “Bayesian Joint Spike-and-Slab Graphical Lasso.” *arXiv Preprint*, no. arXiv:1805.07051. <https://arxiv.org/abs/1805.07051>.
- Li\*, Zehang (Richard), Tyler H McCormick, Tsuyoshi Kunihama, and SAMUEL J CLARK<sup>†</sup>. 2018. “Using Bayesian Latent Gaussian Graphical Models to Infer Symptom Associations in Verbal Autopsies.” *arXiv Preprint*, no. arXiv:1711.00877. <https://arxiv.org/abs/1711.00877>.
- Wakefield, Jon, Geir-Arne Fuglstad, Andrea Riebler, Jessica Godwin, Katie Wilson, and SAMUEL J CLARK. 2018. “Estimating Under-Five Mortality in Space and Time in a Developing World Context.” *arXiv Preprint*, no. arXiv:1711.00800. <https://arxiv.org/abs/1711.00800>.
- CLARK<sup>†</sup>, SAMUEL J. 2016. “A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality.” *arXiv Preprint*, no. arXiv:1612.01408v1. <https://arxiv.org/abs/1612.01408>.
- Sharrow, David J, Jessica Godwin, Yanjun He, SAMUEL J CLARK, and Adrian E Raftery<sup>†</sup>. 2016. “Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics.” *arXiv Preprint*, no. arXiv:1609.04383. <https://arxiv.org/abs/1609.04383>.
- CLARK, SAMUEL J. 2015. “A Singular Value Decomposition-based Factorization and Parsimonious Component Model of Demographic Quantities Correlated by Age: Predicting Complete Demographic Age Schedules with Few Parameters.” *arXiv Preprint*, no. arXiv:1504.02057v1. <https://arxiv.org/abs/1504.02057>.
- McCormick, Tyler H., Zehang Richard Li, Clara Calvert, Amelia C. Crampin, Kathleen Kahn, and SAMUEL J CLARK<sup>†</sup>. 2015. “Probabilistic Cause-of-Death Assignment using Verbal Autopsies.” *arXiv Preprint*, no. arXiv:1411.3042. <https://arxiv.org/abs/1411.3042>.
- CLARK, SAMUEL J. 2014. “A Singular Value Decomposition-based Factorization and Parsimonious Component Model of Demographic Quantities Correlated by Age: Predicting Complete Demographic Age Schedules with Few Parameters.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 143. <http://www.csss.washington.edu/Papers/wp143.pdf>.

- Li, Zehang, Tyler McCormick, and SAMUEL J CLARK. 2014. “InterVA4: An R Package to Analyze Verbal Autopsy Data.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 146. <http://www.csss.washington.edu/Papers/wp146.pdf>.
- McCormick, Tyler, Zehang Li, Clara Calvert, Amelia Crampin, Kathleen Kahn, and SAMUEL J CLARK. 2014. “Probabilistic Cause-of-death Assignment using Verbal Autopsies.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 147. <http://www.csss.washington.edu/Papers/wp147.pdf>.
- Mercer, Laina, Jon Wakefield, Athena Pantazis, Angelina Lutambi, Honorati Masanja, and SAMUEL J CLARK. 2014. “Small Area Estimation of Child Mortality in the Absence of Vital Registration.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 148. <http://www.csss.washington.edu/Papers/wp148.pdf>.
- 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>.
- CLARK, SAMUEL J, and Brian Houle. 2012. “An Application of the Biprobit Heckman Selection Model to Correct Estimates of HIV Prevalence from Sample Surveys.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 119: 32. <http://www.csss.washington.edu/Papers/wp119.pdf>.
- CLARK, SAMUEL J, and Brian Houle. 2012. “Evaluation of Heckman Selection Model Method for Correcting Estimates of HIV Prevalence from Sample Surveys.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 120: 18. <http://www.csss.washington.edu/Papers/wp120.pdf>.
- 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>.
- Wheldon, Mark C., Adrian Raftery, SAMUEL J CLARK, and Patrick Gerland. 2011. “Estimating Demographic Parameters with Uncertainty from Fragmentary Data.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 108: 39. <http://www.csss.washington.edu/Papers/wp108.pdf>.
- Alkema, Leontine, Adrian E. Raftery, Patrick Gerland, SAMUEL J CLARK, Francois Pelletier, and Thomas Buettner. 2010. “Probabilistic Projections of the Total Fertility Rate for All Countries.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 97: 62. <http://www.csss.washington.edu/Papers/wp97.pdf>.
- 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>.
- Alkema, Leontine, Adrian E. Raftery, Patrick Gerland, SAMUEL J CLARK, and Francois Pelletier. 2008. “Estimating the Total Fertility Rate from Multiple Imperfect Data Sources and Assessing its Uncertainty.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 89: 21. <http://www.csss.washington.edu/Papers/wp89.pdf>.
- 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>.

Thomas, Jason, and SAMUEL J CLARK. 2008. “More on the Cohort-Component Model of Population Projection in the Context of HIV/AIDS: A Leslie Matrix Representation and New Estimation Methods.” *Center for Statistics and the Social Sciences (CSSS) Working Paper Series*, no. 88: 38. <http://www.csss.washington.edu/Papers/wp88.pdf>.

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>.

## Software

The [blue](#) text contains links to publicly available software resulting from my projects. The year corresponds to the most recent update.

CLARK, SAM, Zehang Li, Jason Thomas, Choi Eungang, Tyler McCormick, Peter Byass, and Nicolas Maire. 2018. *openVA Github Site*. <http://openva.net>.

CLARK, SAMUEL J. 2018. *Download and Parse USA Mortality Data from usa.mortality.org*. <https://github.com/sinafala/usa-mortality>.

CLARK, SAMUEL J. 2018. *Model Verbal Autopsy (VA) Algorithms*. <https://github.com/sinafala/model-va-algorithms>.

CLARK, SAMUEL J. 2018. *Replication Code for “SVD-Component Mortality Model using Child or Child/Adult Mortality as Inputs”*. <https://github.com/sinafala/svd-comp>.

Eungang, Choi, SAM CLARK, Zehang Li, Nicolas Maire, and Jason Thomas. 2018. *CrossVA: Verbal Autopsy Data Transform for Use with Various Coding Algorithms*. <https://cran.r-project.org/package=CrossVA>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2018. *InSilicoVA: Probabilistic Verbal Autopsy Coding with ‘InSilicoVA’ Algorithm*. <https://cran.r-project.org/package=InSilicoVA>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2018. *InterVA4: Replicate and Analyze ‘InterVA4’*. <https://cran.r-project.org/package=InterVA4>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2018. *openVA: Automated Method for Verbal Autopsy*. <https://cran.r-project.org/package=openVA>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2018. *Tariff: Replicate Tariff Method for Verbal Autopsy*. <https://cran.r-project.org/package=Tariff>.

Martin, Bryan D, Zehang R Li, Yuan Hsiao, Jessica Godwin, Jon Wakefield, and SAMUEL J CLARK. 2018. *SUMMER: Spatio-Temporal Under-Five Mortality Methods for Estimation*. <https://cran.r-project.org/package=SUMMER>.

Thomas, Jason, Choi Eungang, Martin Bratschi, and SAM CLARK. 2018. *openVA Pipeline between ODK and DHIS-2*. [https://github.com/verbal-autopsy-software/openva\\_pipeline](https://github.com/verbal-autopsy-software/openva_pipeline).

Thomas, Jason, Zehang Li, Tyler McCormick, and SAM CLARK. 2018. *R Shiny App for using openVA*. <https://github.com/verbal-autopsy-software/shinyVA>.

Thomas, Jason, Zehang Li, Tyler McCormick, SAM CLARK, and Peter Byass. 2018. *InterVA5: Replicate and Analyse 'InterVA5'*. <https://cran.r-project.org/package=InterVA5>.

## Recent Invited Contributions

CLARK, SAMUEL J. 2018. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. Washington, D.C.: September 2018.

CLARK, SAMUEL J. 2018. Presenter, IPR Colloquium. Institute for Population Research (IPR), The Ohio State University, Columbus, Ohio, USA: January 2018.

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.

## **Selected Workshops & Conferences Organized**

- CLARK, SAMUEL J. 2018. *Mortality Monitoring in the Era of the SDGs*. Three-day training workshop organized by CLARK, SAMUEL J. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Rostock: December 2018.
- CLARK, SAMUEL J, Choi Eungang, Jason Thomas, and Zehang Li. 2018. *openVA Training Workshop*. One-week training workshop organized by CLARK, SAMUEL J. Sponsored by Vital Strategies and Bloomberg Data 4 Health. Columbus: November 2018.
- CLARK, SAMUEL J, Choi Eungang, Jason Thomas, and Alex Vue. 2018. *openVA Pipeline Training Workshop*. One-week training workshop organized by CLARK, SAMUEL J. Sponsored by Vital Strategies and Bloomberg Data 4 Health. Singapore: May 2018.

Li, Zehang, Jon Wakefield, and SAMUEL J CLARK. 2018. *Bayesian Small Area Estimation using Complex Survey Data: Methods and Applications*. Two-day training workshop organized by CLARK, SAMUEL J at *the Meeting of the Asian Population Association*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Shanghai: July 2018.

Li, Zehang, Jon Wakefield, and SAMUEL J CLARK. 2018. *Bayesian Small Area Estimation using Complex Survey Data: Methods and Applications*. Two-day training workshop organized by CLARK, SAMUEL J at *The Annual Meetings of the Population Association of America*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Denver: April 2018.

## Professional Activities

- 2018: International Union for the Scientific Study of Population (IUSSP) Annual Council Meeting
- 2018 – 2021: Elected member of the International Union for the Scientific Study of Population (IUSSP) Council
- 2015: External review for tenure processes
- 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*

## Curriculum Vitae – Samuel J. Clark

- 2008 – 2009: 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 – 2018: Member of Editorial Board for INDEPTH Network Mortality Project
- 2006 – 2018: 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 – 2018: 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 Consulting (alphabetic order)**

- Emory University – for the Gates Foundation CHAMPS project
- Harvard University School of Public Health
- ICF-International – for the Demographic and Health Surveys (DHS) program
- The Bill and Melinda Gates Foundation
- The World Health Organization
- Vital Strategies – for the Bloomberg ‘Data for Health’ initiative

### **Selected Recent Talks, Papers & Presentations**

- CLARK, SAMUEL J. 2018. *A Singular Value Decomposition (SVD) Component Model of Mortality Indexed By Child or Both Child and Adult Mortality*. Presentation by Clark, Samuel at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Denver: April 2018.
- CLARK, SAMUEL J. 2018. *Data Disaggregation and SDG Monitoring*. Presentation by Clark, Samuel at *Meeting of the Population Association of Latin America*. Sponsored by Population Association of Latin America (ALAP). Puebla, Mexico: October 2018.
- CLARK, SAMUEL J. 2018. *The Role of Big Data for Public Policy Monitoring*. Presentation by Clark, Samuel at *Meeting of the Population Association of Latin America*. Sponsored by Population Association of Latin America (ALAP). Puebla, Mexico: October 2018.



- CLARK, SAMUEL J. 2018. *Verbal Autopsy: Various Considerations*. Presentation by Clark, Samuel at *16th International Conference on Communication, Medicine, and Ethics: COMET*. Birmingham, England: June 2018.
- Pantazis, Athena, and SAMUEL J CLARK. 2018. *Age-Specific Fertility Regimes and Fertility Transition: Testing African Exceptionalism and the Implicit Relationships Between Determinants of Fertility Decline and Fertility Age Patterns*. Poster by Clark, Samuel at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Denver: April 2018.
- 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.

2018 – : Eungang (Peter) Choi (Sociology): Advisor

## Curriculum Vitae – Samuel J. Clark

- 2017: ★ External Examiner for Chao Fengqing, PhD in Public Health, National University of Singapore
- 2015 – 2018: ★ Zehang (Richard) Li (Statistics): committee member
- 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

I am a formal demographer who works on the demography and epidemiology of Africa and developing new methods for population sciences. Right now I am working on:

- improving the ‘verbal autopsy’ method used to quantify the burden of disease for populations without full coverage vital statistics systems – work with colleagues at The Ohio State University, the University of Washington, the London School of Hygiene and Tropical Medicine, the CDC, the Swiss Tropical and Public Health Institute, the WHO, and the ‘Data for Health’ Initiative;
- mapping child mortality at the subnational level through time using household survey data in countries without full coverage vital statistics systems – work with colleagues at the University of Washington and UNICEF;
- developing new population indicator measurement strategies and statistical methods to implement them – work with colleagues at the University of Washington; and
- fertility and mortality: a variety of projects investigating levels and trends in fertility and mortality, mostly in Africa, and sometimes building models of age schedules of fertility and mortality that can be used widely as inputs to other analyses.

## Recent Teaching & Instruction

2018:           Sociology 7753: Introduction to Demographic Analysis  
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  
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

## Recent 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]
- 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]