

# Curriculum Vitae

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## Samuel J. Clark

### Personal & Contact Information

Name: Samuel Joseph Clark

Mailing address: Department of Sociology  
University of Washington  
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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 thesis, University of Pennsylvania.

## Employment

### Current

- 2011 – : Associate Professor, Department of Sociology, University of Washington, Seattle, Washington
- 2008 – : Senior Scientist, MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, University of the Witwatersrand, South Africa
- 2007 – : Honorary Research Associate, School of Computational and Applied Mathematics, University of the Witwatersrand, South Africa
- 2001 – : Research Associate, Population Unit, Institute of Behavioral Science, University of Colorado at Boulder

### Previous

- 2007 – 2008: Visiting Senior Researcher, School of Public Health, University of the Witwatersrand, South Africa
- 2005 – 2011: Assistant Professor, Department of Sociology, University of Washington, Seattle, Washington
- 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: Start Date After Tenure

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). **Role: Co-Applicant.** Prin-

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: \$385,000. 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.

NIH: NICHD, R01 No. R01HD086227: \$660,000 per year total cost. 2015. *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: 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). **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. \$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). **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.

### **Current: Start Date Before Tenure**

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.

### **Completed: Start Date After Tenure**

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.

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.

### Completed: Start Date Before Tenure

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. 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.

CCSS, 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, 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.

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.

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 Investiga-**

**tor.** 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 <sup>†</sup> 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.

### Published: After Tenure

Angotti<sup>†</sup>, Nicole, Brian Houle, SAMUEL J CLARK, and F. Xavier Gómez-Olivé. 2015 In Press. "Let's Talk about Sex, Maybe: Interviewers, Respondents, Sexual Behavior Reporting and Social Life in Rural South Africa". *Field Methods*.

- 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 (1): 135. doi: 10.1186/s12889-015-1467-1.
- Helleringer, Stephane, Andrew Noymer, SAMUEL J CLARK, and Tyler H. McCormick. 2015 Correspondence. “Did Ebola Relatively ‘Spare’ Children?” *Lancet* 386 (10002): 1442–1443.
- Houle, Brian, SAMUEL J CLARK<sup>†</sup>, and Alicia Ely Yamin. 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)”. *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 in Press. “Small Area Estimation of Child Mortality in the Absence of Vital Registration”. *Annals of Applied Statistics*.
- Sankoh, Osman, and ... about 80 coauthors. 2015 in Press. “Comprehensive Health and Epidemiological Surveillance System (CHESS) - an Innovative Concept for a New Generation of Population Surveillance from the INDEPTH Network”. *Lancet Global Health - Correspondance*.
- Wheldon\*, Mark, Adrian E. Raftery, SAMUEL J CLARK, and Patrick Gerland. 2015 In Press. “Bayesian Population Reconstruction of Female Populations for Less Developed and Developed Countries”. *Population Studies*.
- Wheldon\*, Mark, Adrian E. Raftery, 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*. doi:10.1111/rssa.12104.
- Zaba<sup>†</sup>, Basia, Georges Reniers, Emma Slaymaker, Jim Todd, Judith Glynn, Mia Crampin, Mark Urassa, Tom Lutalo, Vicky Hosegood, Marie-Louise Newall, SAMUEL J CLARK, and Simon Gregson. 2015 In Press. “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*.
- 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.
- 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.
- 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, 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.
- Alkema\*, Leontine, Adrian E. Raftery, 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†, 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): doi: 10.3402/gha.v5i0.19281.
- CLARK†, 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†, 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†, 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.
- 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.

**Published: Before Tenure**

- 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<sup>†</sup>, 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<sup>†</sup>, 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<sup>†</sup>, 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.
- 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, 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<sup>†</sup> Lee, and Thayer Scudder. 1995. “Ten Thousand Tonga: A Longitudinal Anthropological Study from Southern Zambia: 1956-1991”. *Population Studies* 49:91–109.

### **In Submission/Review Process**

Bawah, Ayaga, Nurul Alam, Abdur Razzaque, Peter Kim Streatfield, Cornelius Debpuur, Paul Welaga, Abraham Oduro, Abraham Hodgson, Stephen Tollman, Mark Collinson, Kathleen Kahn, Tran Khan Toan, Ho Dang Phuc, Nguyen Thi Kim Chuc, Brian Houle, SAMUEL J

- CLARK<sup>†</sup>, and Osman Sankoh. 2015 in Review. “The Evolving Demographic and Health Transition in Low- and Middle-Income Countries: Evidence from Four Sites in the INDEPTH Network of Longitudinal Health and Demographic Surveillance Systems”. *PLoS One*.
- CLARK, SAMUEL J. 2015 In Review. “A Model for Age Schedules using the Singular Value Decomposition”. *Demography* [Working Paper: arXiv:1504.02057v1].
- CLARK<sup>†</sup>, SAMUEL J, and David J. Sharrow. 2015 Resubmitted R/R. “Temporal Model Life Tables”. *Demographic Research*.
- CLARK<sup>†</sup>, SAMUEL J, David J. Sharrow, and INDEPTH Network. 2015 In Review. “INDEPTH Model Life Tables for Low to Middle Income Countries”. *Demographic Research*.
- Houle, Brian, Athena Pantazis, Chodziwadziwa Kabudula, Stephen Tollman, and SAMUEL J CLARK<sup>†</sup>. 2015 in Review. “Social Patterns and Differentials in the Fertility Transition Based on Population Surveillance: Rural South Africa, 1993 – 2013”. *Population Health Metrics*.
- McCormick, Tyler H., Zehang Richard Li, Clara Calvert, Amelia C. Crampin, Kathleen Kahn, and SAMUEL J CLARK<sup>†</sup>. 2015 Resubmitted R/R. “Probabilistic Cause-of-death Assignment using Verbal Autopsies”. *Journal of the American Statistical Association* [Working Paper: preprint arXiv:1411.3042].
- Sennott, Christie, Jill Williams, Benn Sartorius, Jane Menken, SAMUEL J CLARK, F. Xavier Gómez-Olive, Nicole Angotti, Chodziwadziwa W. Kabudula, Kerstin Klipstein-Grobusch, and Stephen Tollman. 2015 in Review. “HIV, Treatment Use, and Recent Childbearing in Rural South Africa: A Cross-Sectional Analysis”. *BMC Pregnancy and Childbirth*.

## In Preparation

- CLARK<sup>†</sup>, SAMUEL J, Clara Calvert, Zehang Li, Tyler H. McCormick, Basia Zaba, et al. 2015 In Preparation. “New Estimates of CSMF from ALPHA Network Sites”. *TBD*.
- Sharrow, David J., Yanjun He, SAMUEL J CLARK, and Adrian E. Raftery. 2015 In Preparation. “Probabilistic Projections of Mortality in Countries with Generalized HIV/AIDS Epidemics for Use in Total Population Projection”. *TBD*.
- Williams<sup>†</sup>, Jill, Casey Blalock, Xavier Gómez-Olivé, Nicole Angotti, SAMUEL J CLARK, Chodziwadziwa Kabudula, Kerstin Klipstein-Grobusch, Jane Menken, and Stephen Tollman. 2015 Draft. “HIV Risk and Sexual Behavior of Older Adults in Rural South Africa”. *TBD*.

## Book Chapters

### Published: After Tenure

- Heuveline, Patrick, and SAMUEL J. CLARK. 2011. “Model Schedules of Mortality”. Chap. 24 in *International Handbook of Adult Mortality*, ed. by Richard Rogers and Eileen Crimmins, 511–531. International Handbooks of Population. Heidelberg: Springer.

**Published: Before Tenure**

- 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*, ed. 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-Saharan Africa: Recommendations for Furthering Research*, ed. 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*, ed. 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*, ed. 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*, ed. 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]. 2002. "INDEPTH Mortality Patterns for Africa". Chap. 7 in *Population, Health, and Survival at INDEPTH Sites*, ed. by INDEPTH Network, 1:83–128. Population and 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*, ed. by INDEPTH Network, 1:51–82. Population and Health in Developing Countries. Ottawa: IDRC Press.

## Others

### Working Papers

- Clark, Samuel. 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 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 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>.
- 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 arXiv:1411.3042*.
- Mercer, Laina, Jon Wakefield, Athena Pantazis, Angelina Lutambi, Honorati Masanja, and Samuel 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 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>.

## Recent Invited Conference & Working Group Contributions

- 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. 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.

## Professional Activities

- 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
- 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

- 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., F. Xavier Gómez-Olivé, Brian Houle, Margaret Thorogood, Kerstin Klipstein-Grobusch, Chodziwadziwa Kabudula, Jill Williams, Jane Menken, and Stephen Tollman. 2015. *Cardiomicrobial 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.
- 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.
- Angotti, Nicole, Brian Houle, and SAMUEL J. CLARK. 2013. *Let's Talk about Sex, Maybe: Interviewers, Respondents, Sexual Behavior Reporting and Social Life in Rural South Africa*. Conference Presentation by CLARK, SAMUEL J. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). New Orleans: April, 2013.
- Clark, Samuel, Tyler McCormick, and Zehang Li. 2013. *InSilicoVA: An Evolution of InterVA*. Conference Presentation by CLARK, SAMUEL J. at *Analysis of Causes of Deaths in Africa: ALPHA Mini-Symposium Gates Foundation, Seattle, August 8 - 9, 2013*. Sponsored by Gates Foundation. Gates Foundation, Seattle: August 8-9, 2013.
- Clark, Samuel, David Sharrow, and INDEPTH Working Group on All Cause Mortality. 2013. *INDEPTH Model Life Tables: 2013*. Conference Presentation by CLARK, SAMUEL J. at *INDEPTH Scientific Conference (ISC 2013)*. Sponsored by INDEPTH Network. Johannesburg, South Africa: October 28-31, 2013.
- Clark, Samuel, Tyler McCormick, Zehang Li, Clara Calvert, and Basia Zaba. 2013. *InSilicoVA: A Statistical Model for Automated Coding of Verbal Autopsies*. Conference Presentation by CLARK, SAMUEL J. at *Second Global Congress on Verbal Autopsy*. Sponsored by Institute for Health Metrics and Evaluation. Rhodes, Greece: October 14-16, 2013.
- CLARK, SAMUEL J., and Brian Houle. 2013. *Heckman Selection Models to Correct Estimates of HIV Prevalence*. Presentation by CLARK, SAMUEL J. at *Center for Statistics and the Social Sciences (CSSS)*. Sponsored by CSSS. University of Washington, Seattle: April, 2013.
- CLARK, SAMUEL J., Tyler McCormick, and Jon Wakefield. 2013. *HYAK Mortality Monitoring System*. Conference Presentation by CLARK, SAMUEL J. at *Agincourt International Scientific Advisory Board Meeting*. Sponsored by Agincourt Health and Demographic Surveillance System Site. Acornhoek, South Africa: January, 2013.

- Sharrow, David J., SAMUEL J. CLARK, and Adrian E. Raftery. 2013. *Modeling Age-Specific Mortality for Countries with Generalized HIV Epidemics*. Conference Poster by at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). New Orleans: April, 2013.
- Surek-Clark, Clarissa, and SAMUEL J. CLARK. 2013. *The Verbal Autopsy Interview Linguistic & Ethnographic Considerations*. Presentation by Surek-Clark, Clarissa at *Symposium on Linguistics in Demography*. Sponsored by IUSSP. London: December 2013.
- Wheldon, Mark C., Adrian E. Raftery, SAMUEL J. CLARK, and Patrick Gerland. 2013. *Bayesian Reconstruction of Past Populations and Vital Rates by Age for Developing and Developed Countries*. Conference Presentation by Raftery, Adrian E. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). New Orleans: April, 2013.
- Wheldon, Mark C., Adrian E. Raftery, SAMUEL J. CLARK, and Patrick Gerland. 2013. *Bayesian Reconstruction of Past Populations and Vital Rates by Age for Developing and Developed Countries*. Conference Presentation by Wheldon, Mark C. at *XXVII IUSSP International Population Conference*. Sponsored by International Union for the Scientific Study of Population (IUSSP). Busan, South Korea: September, 2013.
- CLARK, SAMUEL J. 2012. *Applications of Clustering Methods in Demography and Epidemiology*. Conference Presentation by CLARK, SAMUEL J. at *Working Group on Model-based Clustering, Summer 2012*. Sponsored by Working Group on Model-based Clustering. Guelph, Canada: July 16, 2012.
- CLARK, SAMUEL J., and for Agincourt Team. 2012. *Data Stewardship Agincourt Core & Add-on Studies*. Conference Presentation by CLARK, SAMUEL J. at *Agincourt PIs Meeting*. Sponsored by Agincourt Health and Demographic Surveillance System Site. Acornhoek, South Africa: January, 2012.
- CLARK, SAMUEL J., and for Agincourt Team. 2012. *Levels, Trends & Transitions Mortality & Fertility [at Agincourt Health and Demographic Surveillance System Site 1992-2010]*. Conference Presentation by CLARK, SAMUEL J. at *Agincourt PIs Meeting*. Sponsored by Agincourt Health and Demographic Surveillance System Site. Acornhoek, South Africa: January, 2012.
- CLARK, SAMUEL J., and Brian Houle. 2012. *Heckman Selection Models to Correct Estimates of HIV Prevalence*. Presentation by CLARK, SAMUEL J. at *Meeting of UNAIDS Reference Group on Estimates, Modelling and Projections*. Sponsored by UNAIDS. Harvard School of Public Health, Boston: April, 2012.
- Gómez-Olivé, Xavier, SAMUEL J. CLARK, Kerstin Klipstein-Grobusch, Jane Menken, Nicole Angotti, Chodziwadziwa Kabudula, Jill Williams, and Stephen M. Tollman. 2012. *Findings from the Ha Nakekela Study: The Burden of HIV among Adults over Age 50*. Conference Presentation by Menken, Jane at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Francisco: May, 2012.

- Wheldon, Mark C., Adrian E. Raftery, SAMUEL J. CLARK, and Patrick Gerland. 2012. *Reconstructing Population Dynamics of the Recent Past, with Uncertainty, from Fragmentary Data*. Conference Presentation by Wheldon, Mark at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Francisco: May, 2012.
- Bawah, Ayaga, Momodou Jasseh, Samuel Clark, Sureeporn Punpuing, Alioune Diagne, David J. Sharrow, and Osman Sankoh. 2011. *Estimating Adult Mortality in Africa and Asia Using INDEPTH Data from Health and Demographic Surveillance Systems*. Presentation by Bawah, Ayaga at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America. Washington, D.C.: April, 2011.
- CLARK, SAMUEL J. 2011. *A New Model Life Table Method: Examples Using the Human Mortality Database INDEPTH Network Data*. Seminar Series Lecture by CLARK, SAMUEL J. at *Notestein Seminar Series*. Sponsored by Office of Population Research. Princeton University: March 1, 2011.
- CLARK, SAMUEL J., and David J. Sharrow. 2011. *Contemporary Model Life Tables for Developed Countries: An Application of Model-based Clustering*. Poster by Sharrow, David J. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America. Washington, D.C.: April 2011.
- Wheldon, Mark C., Adrian E. Raftery, SAMUEL J. CLARK, and Patrick Gerland. 2011. *Estimating Demographic Parameters and their Uncertainty from Fragmentary Data*. Conference Presentation by Wheldon, Mark C. at *Joint Statistical Meetings*. Sponsored by American Statistical Association. Miami Beach, Florida: August, 2011.
- Clark, Benjamin D, and SAMUEL J. CLARK. 2010. *SPEHR*. Conference Presentation by Clark, Benjamin D. and CLARK, SAMUEL J. at *SPEHR Workshop*. Sponsored by Kisesa Health and Demographic Surveillance System Site. Mwanza, Tanzania: June 26-30, 2010.
- CLARK, SAMUEL J. 2010. *Discussant for Session 86: Determinants of Child Survival in Africa*. Discussion by CLARK, SAMUEL J. at *The Annual Meeting of the Population Association of America*. Sponsored by Population Association of America. Dallas: April, 2010.
- CLARK, SAMUEL J. 2010. *Exploring Age Patterns of Mortality: Examples with Data from INDEPTH & HMD*. Presentation by CLARK, SAMUEL J. at *Mini Conference on Formal Demographic Methods*. Sponsored by The Berkeley Population Center at the University of California Berkeley and the California Center for Population Research at the University of California Los Angeles. Berkeley: June 7, 2010.
- CLARK, SAMUEL J., and David J. Sharrow. 2010. *Model Life Tables: An Application of Model Based Clustering*. Presentation by CLARK, SAMUEL J. at *Mortality Analysis and Forecasting*. Sponsored by Center on the Economics and Demography of Aging, Stanford University. Stanford University: December, 2010.

Sharrow, David J., and SAMUEL J. CLARK. 2010. *A Parametric Investigation of Mortality at All Ages in a Rural, South African Population*. Presentation by Sharrow, David J. at *The Annual Meeting of the Population Association of America*. Sponsored by Population Association of America. Dallas: April, 2010.

Wheldon, Mark C., Adrian E. Raftery, SAMUEL J. CLARK, and Patrick Gerland. 2010. *A Bayesian Model for Estimating Population Size and Demographic Parameters With Uncertainty*. Presentation by Wheldon, Mark C. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America. Dallas: April, 2010.

## Students

A star ★ indicates completed degree.

### Ph.D.

- 2014 – : Jonathan Muir (Sociology): **committee chair**
- 2013 – : William Brown (Anthropology): graduate school representative
- 2012 – : 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 – : 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

- 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 – 2015: 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 – 2015: 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]

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- 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

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