

Curriculum Vitae

May, 2011

Samuel J. Clark

Personal

Name: Samuel Joseph Clark

Birth: October 12, 1969
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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*. Ph.D. dissertation in Demography. Philadelphia, Pennsylvania: University of Pennsylvania. Pages: 417.

Employment

Current Positions

- 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 Positions

- 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 Research Support

Wellcome Trust, Programme Grant. \$360,000 (200,000 pounds sterling) per year. **Zaba, Basia (PI)**, 04/01/2010 – 03/31/2015. *Collaborative Network for Data Analysis in African Community-Based, Longitudinal HIV Studies*. **Role: Co-Applicant. Principal Authors:** B. Zaba, V. Hosegood, S. J. Clark, D. Mayer and J. Kagaayi. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant will support continued activities of the ALPHA Network whose long-term aim is to maximise the usefulness of data generated in community-based longitudinal HIV studies in sub-Saharan Africa with respect to the needs of national and international agencies involved in planning interventions to prevent the spread of HIV or mitigate its consequences.

- NIH: NICHD, K01: No. 1K01HD057246-01. \$115,000 per year. **Clark, Samuel J. (PI)**, 06/15/2008 - 05/31/2013. *Predicting Impacts of Infectious Disease on Structure and Dynamics of Populations*. **Role: PI. Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant supports training and research. Training activities include didactic and mentored self-learning in social and sexual network theory and methods and Bayesian statistical methods. Research will develop new methods to quantify uncertainty in stochastic microsimulation models and investigate the effects of sexually transmitted diseases on populations and the potential effects of interventions aimed at disrupting those disease processes.
- Wellcome Trust, Programme Grant: No. 085477/Z/08/Z. \$850,000 (575,000 pounds sterling) per year. **Tollman, Stephen Meir (PI)**, 2008-2012. *Health, Population and Social Transitions in Rural South Africa: Elucidating Pathways and Testing Interventions*. **Role: Co-Applicant. Principal Authors:** S. M. Tollman, K. Kahn, M. A. Collinson and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant supports the core activities of the Agincourt Health and Demographic Surveillance System site in South Africa. These include an annual census of the entire study population and administration/support for numerous additional studies that rely on the core infrastructure of the HDSS.
- NIH: NICHD, Subcontract from R01 hosted at the University of California Los Angeles Heuveline (PI): No. R01HD05461. \$50,000 per year. **Clark, Samuel J. (PI)**, 09/21/2007 - 08/31/2012. *Design and Implementation of MIPopLab DSS Data Management System*. **Role: PI. Principal Authors:** S. J. Clark and P. Heuveline. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This subcontract supports design and implementation of a data management system for the MIPopLab DSS in Cambodia.
- NIH: NIA, R24: No. R24AG032112. \$300,000 per year. **Menken, Jane, Stephen M. Tollman and Samuel J. Clark (PI)**, 09/30/2007 - 08/31/2012. *Partnership for Social Science AIDS Research in South Africa's Era of ART Rollout*. **Role: Co-PI. Principal Authors:** S. J. Clark, J. Menken and S. M. Tollman. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This is a 'global partnerships' grant to build infrastructure at the Agincourt DSS site in South Africa and investigate the impacts of antiretroviral drug rollout and the livelihood effects of complex transitions being experienced by the Agincourt study population.
- NIH: NICHD, R01: No. R01HD054511. \$250,000 per year. **Raftery, Adrian (PI)**, 08/15/2007 – 05/31/2011 *Assessing Uncertainty in Population Projections and Linked Demographic-Disease Models via Bayesian Melding* **Role: Investigator. Principal Authors:** A. E. Raftery and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant supports investigation and development of methods to apply the Bayesian Melding statistical technique to epidemiological deterministic projection models. This will allow such models to be fit to a variety of different data sources and to produce meaningful probabilistic prediction intervals.

Pending Research Support

- NIH: NIA, P01. \$~1.5 million USD. **Berkman, Lisa and Stephen M. Tollman (PI)**, Planned 2012-2017. *Health and Aging in Africa: Longitudinal Studies in 3 INDEPTH Communities*. **Role: Co-author and PI of Mortality Core. Principal Authors:** Lisa Berkman (overall proposal), Stephen

M. Tollman (overall proposal), Samuel J. Clark (Mortality Core) and K. Kahn. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This program-project proposal includes four projects to investigate aging in Africa in the context of HIV. Data will be drawn from three health and demographic surveillance system sites in Africa. Two surveys will be conducted at each site separated by two years and including a sample of people 50 and older. Mortality will be continuously monitored for the same population using existing health and demographic surveillance system infrastructure.

Wellcome Trust, Wellcome Trust Strategic Award. \$~1.5 million USD. **Sankoh, Osman A., Stephen M. Tollman and Kobus Herbst (PI)**, Planned 2012-2017. *Informing Global Efforts to Improve the Health and Wellbeing of Low and Middle-Income Populations: The INDEPTH Network of Health and Demographic Surveillance Systems*. **Role: Co-author of Research Area 1: Epi-demographic Transitions. Principal Authors:** S. M. Tollman, K. Herbst, S. J. Clark, K. Kahn, K. Klipstein-Grobusch and V. Hosegood. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This proposal seeks to achieve a profound shift in the INDEPTH Network – from a credible, high-potential research and training network to a world-leading African-Asian platform of health and demographic surveillance centres engaged in ground-breaking comparative and collaborative population-based, policy-oriented research.

Completed Research Support

- Center for Studies in Demography and Ecology (CSDE), University of Washington, Seed Grant. \$15,000. **Clark, Samuel J. (PI)**, Summer 2009. *A New Look at Indirect Methods for Estimating Demographic Indicators: Evaluation, Validation and Reformulation*. **Role: PI. Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This seed grant seeks to support work to refine indirect methods for estimating mortality at all ages in Africa.
- CSSS, University of Washington. \$20,000. **Clark, Samuel J. (PI)**, 01/01/2007 – 12/31/2007. *Estimating HIV Prevalence in Africa by Applying Bayesian Melding to a Cohort Component Projection Model*. **Role: PI. Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This small grant supports methodological development to quantify uncertainty in an epi-demographic cohort-component projection model using a Bayesian melding approach.
- NIH: NIA, R03 No. R03AG028640. \$45,000 per year. **Clark, Samuel J. (PI)**, 09/15/2006 – 06/30/2008 extended 06/30/2009. *Extending Access to Data from Demographic Surveillance System Sites in Africa*. **Role: PI. Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant supports the development of policy, procedures and technology to promote access to rich sources of longitudinal health and population data at DSS sites in Africa that up to now have been little used by the international research community.
- CSSS, University of Washington. \$20,000. **Raftery, Adrian (PI)**, 01/01/2006 – 12/31/2006. *Assessing Uncertainty in Population Projections and Linked Demographic Disease Models via Bayesian Melding*. **Role: Investigator. Principal Authors:** A. E. Raftery and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This small grant supports methodological development to quantify uncertainty in the UNAIDS EPP model used to estimate HIV prevalence in developing countries.

- NIH: FIC (Fogarty International Center), R25: No. R25TW007491. \$125,000 per year. **Kimball, Ann-Marie (PI)**, 09/21/2005 – 07/31/2006 *Framework in Global Health: Local to Global Health*. **Role: Instructor. Principal Authors:** A.-M. Kimball and M. Morris. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This is a Fogarty International grant to coordinate training and research on issues related to Global Health.
- NIH: NIA, Supplement to P30: No. 2 P30 AG17248-03. \$25,000. **Menken, Jane (PI)**, 07/01/2002 – 06/30/2004. *Supplement to NIH/NIA P30 AG17248: Population Aging Center*. **Role: Author/PI of supplement. Principal Author:** S. J. Clark. **Review Status:** Administrative Review. **Publication Type:** Grant. **Abstract:** The purpose of this supplement is to enable the University of Witwatersrand in Johannesburg, South Africa to expand its research in the areas of HIV/AIDS modeling, adult health, and overall population and aging studies, and to increase its collaboration with the University of Colorado Population Aging Center.
- NIH: NICHD, R03: No. R03 HD041537. \$50,000 per year. **Heuveline, Patrick (PI)**, February 2002 – January 2004. *Cambodia between the Khmers Rouges and the Red Plague?* **Role: Consultant. Principal Author:** P. Heuveline. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This pilot project initiated a small DSS site in Cambodia.
- NIH: NIA, Supplement to R37: No. 3 R37 AG10168-09S2. \$50,000. **Preston, Samuel H. (PI)**, 02/03/1992 – 01/31/2003. *Supplement to NIH/NIA R37 AG10168: Racial and Ethnic Mortality Differences at Older Ages*. **Role: Author/PI of supplement. Principal Author:** S. J. Clark. **Review Status:** Administrative Review. **Publication Type:** Grant. **Abstract:** The supplement supports work on investigating the impact of HIV/AIDS on adult mortality in Africa and building a microsimulator to study the impact of HIV/AIDS on African populations.
- NSF: No. SBR-9505738. \$100,000 per year. **Scudder, Thayer (PI)**, 08/01/1995 – 07/31/1998. *Long Term Study of Social Change in Rural Zambia*. **Role: Investigator. Principal Authors:** T. Scudder, E. Colson and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Grant. **Abstract:** This grant supports a small DSS in four villages in Southern Zambia for three years, continuing the 40 years' of observation of those four villages. The impact of HIV/AIDS on demographic indices was elucidated.

Professional Activities

- 2010 – : Scientific Advisory Committee for the INDEPTH Network
- 2010 – : 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 – : Scientific Advisory Committee for the South African Centre for Epidemiological Modeling and Analysis (SACEMA).
- 1998 – : Participant and sometimes co-Coordinator of Technical Working Group of the INDEPTH Network.

- 2009 – 2010: Participation on NIH review panel.
- 2008 – 2009: Participation on NIH review panel.
- 2008 – 2009: Reviewed grant applications for Swedith 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.
- 2005 – 2010: Scientific Advisory Committee for the ALPHA Network of epidemiological field sites in Africa, coordinated at the London School of Hygiene and Tropical Medicine.
- 2004 – 2005: Executive Committee of the South African Centre for Epidemiological Modeling and Analysis (SACEMA).

Honors, Awards & Small Grants

- 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 HDSS.
- 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 at the University of Windhoek, Namibia.
- 1988: National Merit Scholar.

University of Washington Duties

Committees

Department of Sociology

- 2009 – 2010: Department representative to CSSSCR.
- 2009 – 2011: Member, Executive Committee.
- 2009 – 2010: Chair, Colloquium Committee.
- 2009 – 2011: Departmental Senator.
- 2009 – 2011: Member, Demography & Ecology Committee.
- 2009 – 2011: Member, Family & Kinship Committee.
- 2009 – 2011: Chair, Research Methodology Committee.
- 2007 – 2008: Member, Research, Computing & Technology Committee.
- 2007 – 2008: Member, Undergraduate Program Committee.
- 2007 – 2008: Chair, Demography & Ecology Committee.
- 2007 – 2008: Member, Family & Kinship Committee.
- 2007 – 2008: Member, Research Methodology Committee.
- 2005 – 2006: Member, Executive Committee.
- 2005 – 2006: Member, Undergraduate Program Committee.
- 2005 – 2006: Member, Research Methodology Committee.
- 2005 – 2006: Member, Demography & Ecology Committee.
- 2005 – 2006: Member, Family & Kinship Committee.
- 2005 – 2006: Member, Medical Sociology Examination Committee (Emily Watson).
- 2005 – 2006: Member, Hiring Committee.

Other

- 2007 – : Member, Center for Studies in Demography & Ecology Training Committee.
- 2005 – : Member, Center for Studies in Demography & Ecology Information Core Advisory Board.

Duties & Service

- 2008 – 2009: Served on Center for Studies in Demography & Ecology statistics core advisory committee.
- 2007 – 2008: Organized six-week internship in Africa for sociology graduate student Jason Thomas.
- 2007 – 2008: Presentation at Center for Institute for Health Metrics and Evaluation Colloquium Series.
- 2007 – 2008: Presentation at Center for Studies in Demography & Ecology Colloquium Series.
- 2006 – 2007: University of Washington Combined Fund Drive coordinator for the Department of Sociology.
- 2006 – 2007: With undergraduate Jeffrey Eaton, presented in the 'Research Exposed' seminar series for undergraduates.

- 2006 – 2007: Participated in African Studies Program external review activities.
- 2006 – 2007: Read and evaluated undergraduate applications to Mary Gates Endowment Fellowships.
- 2006 – 2007: Gave guest lecture on male circumcision to disrupt HIV transmission in Prof. Ann Kurth's Epidemiology class.
- 2006 – 2007: Read and evaluated undergraduate applications in the Research for Advanced Undergraduates program.
- 2005 – 2006: Presentation at Center for Studies in Demography & Ecology Colloquium Series.
- 2005 – 2006: Presentation in Anthropology Department Bioanthropology Colloquium Series.
- 2005 – 2006: Participated in Center for Studies in Demography & Ecology Curriculum Committee for 'Case-based Instruction' associated with Fogarty Frameworks instruction grant.
- 2005 – 2006: Served on Center for Studies in Demography & Ecology Fellowship Selection Committee.
- 2005 – 2006: Presentation at Center for Studies in Demography & Ecology 'Faculty Exposure Seminar'.
- 2005 – 2006: Supported/Mentored sociology undergraduate Jeffrey Eaton in successful applications for Goldwater and Mary Gates Fellowships.
- 2005 – 2006: Organized one-year internship in South Africa for sociology undergraduate Jeffrey Eaton.
- 2005 – 2006: Together with Adrian Rafter organized one-year internship for statistics graduate student Leontine Alkema at the UN Population Division in New York and various places in Africa.

Publications and Manuscripts

Journal Articles

Published

- Madhavan, Sangeetha, Enid Shatz, **Samuel J. Clark** and Mark A. Collinson. 2011 *In Press*. "Child Mobility, Maternal Status and Household Composition in Rural South Africa." *Demography*. **Principal Authors:** S. Madhavan, E. Shatz, S. J. Clark and M. A. Collinson. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Thomas, Jason and **Samuel J. Clark**. 2011 *Accepted*. "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*. **Principal Authors:** J. Thomas and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Alkema, Leontine, Adrian E. Raftery, Patrick Gerland, **Samuel J. Clark**, Francois Pelletier and Thomas Buettner. 2010 *In Press*. "Probabilistic Projections of the Total Fertility Rate for All Countries." *Demography*. **Principal Authors:** L. Alkema, A. E. Raftery, P. Gerland and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.

- Williams, Jill R., Enid J. Schatz, Benjamin D. Clark, Mark A. Collinson, **Samuel J. Clark**, Jane Menken, Kathleen Kahn and Stephen M. Tollman. 2010 *In Press*. "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). **Principal Authors:** J. R. Williams, E. J. Schatz and B. D. Clark. **Review Status:** Peer Reviewed. **Publication Type:** Journal Article.
- Cassels, Susan, **Samuel J. Clark** and Martina Morris. 2008. "Mathematical Models for HIV Transmission Dynamics: Tools for Social and Behavioral Science Research." *JAIDS*, 47(Supplement 1):S34-S9. **Principal Authors:** S. Cassels, S. J. Clark and M. Morris. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- 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. **Principal Authors:** S. M. Tollman, K. Kahn, B. K. Sartorius and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- 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):229-48. **Principal Authors:** L. Alkema, A. E. Raftery and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- 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):21-5. **Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- 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. **Principal Authors:** S. J. Clark and M. Collinson. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Kahn, Kathleen, Stephen Tollman, Mark A. Collinson, **Samuel J. Clark**, Rhian Twine, Benjamin D. Clark, Mildred Shabangu, Frances Xavier Gomez-Olive, 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. **Principal Authors:** K. Kahn and S. Tollman. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Adjuik, Martin, Tom Smith, **Sam Clark**, Jim Todd, Anu Garrib, Yohannes Kinfu, Kathy Kahn, Mitiki Mola, Ali Ashraf, Honorati Masanja, *et al.* 2006. "Cause-specific mortality rates in sub-Saharan Africa and Bangladesh." *Bulletin of the World Health Organization*, 84(3):181-8. **Principal Authors:** M. Adjuik, T. Smith and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Clark, Samuel J.** 2006. "A General Temporal Data Model and the Structured Population Event History Register." *Demographic Research*, 15(7):181-252. **Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.

- Benzler, Justus and **Samuel J. Clark**. 2005. "Toward a Unified Timestamp with Explicit Precision." *Demographic Research*, 12(6):107-40. **Principal Authors:** J. Benzler and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- 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*, 33:1271-8. **Principal Authors:** J. R. Hargreaves, M. A. Collinson and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Clark, Samuel J.**, Elizabeth Colson, James Lee and Thayer Scudder. 1995. "Ten Thousand Tonga: A Longitudinal Anthropological Study from Southern Zambia: 1956-1991." *Population Studies*, 49:91-109. **Principal Authors:** S. J. Clark and J. Lee. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.

In Submission/Review Process*

- Clark, Samuel J.** and David J. Sharrow. 2011 Submitted. "Contemporary Model Life Tables for Developed Countries An Application of Bayesian Model-based Clustering." *Demography*. **Principal Authors:** S. J. Clark and D. J. Sharrow. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Wheldon, Mark C., Adrian E. Raftery, **Samuel J. Clark** and Patrick Gerland. 2011 Submitted. "Estimating Population Size and Demographic Parameters with Uncertainty: A Bayesian Approach." *Journal of the American Statistical Association*. **Principal Authors:** M. C. Wheldon, A. E. Raftery and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Sharrow, David, **Samuel J. Clark**, Mark A. Collinson, Kathleen Kahn and Stephen M. Tollman. 2011 **Resubmitted After Revisions**. "The Age-Pattern of Increases in Mortality Affected by HIV: Bayesian Fit of the Heligman-Pollard Model to Data from the Agincourt HDSS Field Site in Rural Northeast South Africa." *Demography*. **Principal Authors:** S. J. Clark and D. Sharrow. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Clark, Samuel J.**, Jason Thomas and Le Bao. 2011 **In Revision for Resubmission**. "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*. **Principal Authors:** S. J. Clark and J. Thomas. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Alkema, Leontine, Adrian E. Raftery, Patrick Gerland, **Samuel J. Clark** and Francois Pelletier. 2010 **Submitted**. "A Method to Estimate Trends in the TFR with Uncertainty Using Imperfect Data: Examples from West Africa." *Demographic Research*. **Principal Authors:** L. Alkema, A. E. Raftery, P. Gerland and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.
- Collinson, Mark A., **Samuel J. Clark**, A.A.M. Gerritsen, Peter Byass, Kathleen Kahn and Stephen M. Tollman. 2010 **Submitted**. "The Dynamics of Poverty and Migration in a Rural South African Community, 2001-2005." *Demographic Research*. **Principal Authors:** M. A. Collinson and S. J. Clark. **Review Status:** Peer Reviewed. **Publication Type:** Journal Article.
- Clark, Samuel J.**, Jeffrey Eaton, Michelle M. Elmquist, Natalie R. Ottenweiller and Jenna K. Snaveley. 2010 **In Revision for Resubmission**. "Demographic Consequences of HIV Epidemics

and Effects of Different Male Circumcision Intervention Designs: Suggestive Findings from Microsimulation." *Demography*. **Principal Author:** S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Journal Article.

In Preparation*

Thomas, Jason and **Samuel Clark**. 2011 *In Draft Form*. "Estimates of HIV Incidence Profiles for sub-Saharan Africa with Projected Declines in Fertility." **Principal Authors:** J. Thomas and S. J. Clark. **Publication Type:** Journal Article.

Clark, Samuel J., Brian Houle and others. 2011 *Draft Ready for Submission-a*. "Socio-Economic and Household Determinants of Adult Mortality in Rural South Africa." *TBD*. **Publication Type:** Journal Article.

Clark, Samuel J., Brian Houle and others. 2011 *Draft Ready for Submission-b*. "The Unfolding Counter-Transition in South Africa: Adult Mortality by Sex, Age, Time, and Cause of Death, 1994 – 2009." *TBD*. **Publication Type:** Journal Article.

Clark, Samuel J., Kathleen Kahn, Brian Houle, Adriane Arteche, Mark A. Collinson, Stephen M. Tollman, Kathleen Kahn and Alan Stein. 2011 *Draft Ready for Submission-c*. "A Young Child's Risk of Dying Increases Both Before and After Their Mother Dies." *Target: Lancet*.

Houle, Brian, Kathleen Kahn, Stephen M. Tollman, Mark A. Collinson, Alan Stein and **Samuel J. Clark**. 2011 *Draft Ready for Submission*. "Household Context and Child Mortality The Effects of Birth Spacing, Shared Mortality, Household Composition, and Socio-Economic Status." *TBD*. **Publication Type:** Journal Article.

Clark, Benjamin D. and **Samuel J. Clark**. 2010 *In Preparation*. "Performance Evaluation of the Structured Population Event History Register (SPEHR) Relational Schema for Managing Longitudinal Health and Population Data." **Principal Authors:** B. D. Clark and S. J. Clark. **Publication Type:** Journal Article.

Clark, Samuel J., Momodou Jasseh, Sureeporn Punpuing, Eliya Zulu, Ayaga Bawah and Osman Sankoh. 2010 *In Preparation*. "INDEPTH Model Life Tables 2.0." **Principal Author:** S. J. Clark. **Publication Type:** Journal Article.

Book Chapters

Published

Heuveline, Patrick and **Samuel J. Clark**. 2011. "Chapter 24: Model Schedules of Mortality." Pp. 59 in *International Handbook of Adult Mortality*, *International Handbooks of Population*. Edited by R. Rogers and E. Crimmins. **Principal Authors:** P. Heuveline and S. J. Clark. **Review Status:** Edited. **Publication Type:** Book Section.

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." Pp. 81-108 in *The Dynamics of Migration, Health and Livelihoods: INDEPTH Network Perspectives*. Edited by M. Collinson, K. Adazu, M. White and S. Findley. Farnham: Ashgate. **Principal Authors:** M. A. Collinson and S. J. Clark. **Review Status:** Peer-Reviewed. **Publication Type:** Book Section.

- Clark, Samuel J.** 2006. "Demographic Impacts of the HIV Epidemic and Consequences of Population-wide Treatment of HIV for the Elderly: Results from Microsimulation." Pp. 3-1 to 3-24 in Aging in Sub-Sahara Africa: Recommendations for Furthering Research, Panel on Policy Research and Data Needs to Meet the Challenge of Aging in Africa. Edited by B. Cohen and J. Menken. Washington, DC: The National Academy Press. *Principal Author*: S. J. Clark. *Review Status*: Peer-Reviewed. *Publication Type*: Book Section.
- 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." Pp. 194-216 in African Migration in Comparative Perspective. Edited by M. Tienda, S. M. Tollman, E. Preston-Whyte and S. E. Findlay. Johannesburg: University of the Witwatersrand Press. *Principal Authors*: M. A. Collinson and S. J. Clark. *Review Status*: Peer-Reviewed. *Publication Type*: Book Section.
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In Submission/Review Process*

None.

In Preparation*

None.

Others

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- 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). University of Washington. Pages: 62. *Principal Authors*: L. Alkema, A. E. Raftery, P. Gerland and S. J. Clark. *Review Status*: Not Reviewed. *Publication Type*: Working Paper.
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Clark, Benjamin D. and **Samuel J. Clark**. 2010. "SPEHR." B. D. Clark and **S. J. Clark** at *SPEHR Workshop*. Sponsored by Kisesa HDSS Site, Mwanza, Tanzania. June 26-30, 2010. **Principal Authors:** B. D. C. C.-o. o. workshop) and **S. J. C. C.-o. o. workshop**). **Review Status:** NA. **Publication Type:** Organization and Implementation of Workshop.

Clark, Samuel J. 2010a. "Discussant for *Session 86: Determinants of Child Survival in Africa*." Discussion by S. J. Clark at *The Annual Meeting of the Population Association of America*. Sponsored by Population Association of America, Dallas. April, 2010. **Principal Author:** S. J. Clark. **Review Status:** Invited. **Publication Type:** Conference Session Discussant's Remarks.

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- Sharrow, David J. and Samuel J. Clark. 2010. "A Parametric Investigation of Mortality at All Ages in a Rural, South African Population." Presentation by D. J. Sharrow at *The Annual Meeting of the Population Association of America*. Sponsored by Population Association of America, Dallas. April, 2010. **Principal Author:** D. J. Sharrow. **Review Status:** Competitive Selection. **Publication Type:** Conference Paper.
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- Alkema, Leontine, Adrian E. Raftery, Patrick Gerland, **Samuel J. Clark** and Francois Pelletier. 2009. "Estimating the Total Fertility Rate from Multiple Imperfect Data Sources and Assessing its Uncertainty." Presentation by L. Alkema at *The Annual Meeting of the Population Association of America*. Sponsored by Population Association of America (PAA), Detroit. May 1, 2009. **Principal Authors:** L. Alkema, A. E. Raftery, P. Gerland and S. J. Clark. **Review Status:** Competitive Selection. **Publication Type:** Conference Presentation.
- Clark, Benjamin D. and **Samuel J. Clark**. 2009a. "Performance Evaluation of the Structured Population Event History Register (SPEHR) Relational Schema for Managing Longitudinal Health and Population Data." Presentation by B. D. Clark at *NCeSS Conference on eSocial Science*. Sponsored by NCeSS Center for eSocial Science, United Kingdom, Cologne, Germany. 24-26 June, 2009. **Principal Authors:** B. D. Clark and S. J. Clark. **Review Status:** Competitive Selection. **Publication Type:** Conference Presentation.
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Clark, Samuel J. 2004c. "Microsimulation of Populations with HIV: Orphans and the Elderly." Presentation by S. J. Clark at *Workshop: Estimating the Demographic and Epidemiological Impact of HIV/AIDS in South Africa, and Projecting the Need for Antiretroviral Therapy*. Sponsored by SACEMA - South African Centre for Epidemiological Modeling and Analysis, Stellenbosch, South Africa. September 27 – October 1, 2004. **Principal Author:** S. J. Clark. **Review Status:** Invited. **Publication Type:** Conference Presentation.

Clark, Samuel J. 2004d. "Microsimulation of Populations with HIV: Orphans and the Elderly." Presentation by S. J. Clark at *Friday Seminar Series*. Sponsored by Commerce Department and CARE - Centre for Actuarial Research, University of Cape Town, Cape Town, South Africa. October 22, 2004. **Principal Author:** S. J. Clark. **Review Status:** Invited. **Publication Type:** Conference Presentation.

Clark, Samuel J. 2004e. "Survival of Orphans: Examples from Southern Zambia and South Africa." Presentation by S. J. Clark at *The Annual Meetings of the Population Association of America*. Sponsored by The Population Association of America, Boston. April 2004. **Principal Author:** S. J. Clark. **Review Status:** Competitive Selection. **Publication Type:** Conference Presentation.

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- Clark, Samuel J.** 2002c. "The Structured Population Event History Register." Poster presented by S. J. Clark at *The Annual Meetings of the Population Association of America*. Sponsored by The Population Association of America, Atlanta. May 2002. **Principal Author:** S. J. Clark. **Review Status:** Competitive Selection. **Publication Type:** Conference Presentation.

- Benzler, Justus and **Samuel J. Clark**. 2001. "Toward Temporal Integrity in Demographic Surveillance." Poster presented by S. J. Clark at *The 24th IUSSP General Population Conference*. Sponsored by The International Union for the Scientific Study of Population (IUSSP), Salvador de Bahia, Brazil. August 2001. **Principal Author**: S. J. Clark. **Review Status**: Competitive Selection. **Publication Type**: Conference Presentation.
- Clark, Samuel J.** 2001. "A Relational Data Model to Manage Longitudinal Population Data." Presentation by S. J. Clark at *Leveraging Longitudinal Data in Developing Countries (Workshop)*. Sponsored by The Committee on Population of the National Academy of Sciences, Washington D.C. June 2001. **Review Status**: Invited. **Publication Type**: Conference Presentation.
- Benzler, Justus and **Samuel J. Clark**. 2000. "Longitudinal Database Design." Workshop Presentation by J. Benzler and S. J. Clark at *The INDEPTH Annual General Meeting*. Sponsored by The INDEPTH Network, Johannesburg. July 2000. **Principal Authors**: J. Benzler and S. J. Clark. **Review Status**: Invited. **Publication Type**: Conference Presentation.
- Clark, Samuel J.** 2000. "Demographic Methods of Assessing Data Quality." Presentation by S. J. Clark at *The INDEPTH Meeting on Mortality*. Sponsored by The INDEPTH Network, Ougadougou. February 2000. **Principal Author**: S. J. Clark. **Review Status**: Invited. **Publication Type**: Conference Presentation.
- Clark, Samuel J.** 1999a. "Can Africa Survive the AIDS Crisis?" Roundtable discussion participation by S. J. Clark at *The Annual Meetings of the Anthropological Association of America*. Sponsored by The Anthropological Association of America, Chicago. November 1999. **Principal Author**: S. J. Clark. **Review Status**: Competitive Selection. **Publication Type**: Conference Presentation.
- Clark, Samuel J.** 1999b. "Forty Years of Mortality in Gwembe Valley, Zambia: 1950-1994." Presentation by S. J. Clark at *The General Meeting of the Union for African Population Studies*. Sponsored by The Union for African Population Studies (UAPS), Durban. December 1999. **Principal Author**: S. J. Clark. **Review Status**: Competitive Selection. **Publication Type**: Conference Presentation.
- Clark, Samuel J.** 1999c. "Social Relations in Long Term Field Research." Roundtable discussion participation by S. J. Clark at *The Annual Meetings of the Anthropological Association of America*. Sponsored by The Anthropological Association of America, Chicago. November 1999. **Principal Author**: S. J. Clark. **Review Status**: Competitive Selection. **Publication Type**: Conference Presentation.
- Ewbank, Douglas C. and **Samuel J. Clark**. 1996. "Apolipoprotein-E Genotypes and the Demography of Alzheimer's Disease and Ischemic Heart Disease." Presentation by D. C. Ewbank at *Annual Meetings of the Population Association of America*. Sponsored by The Population Association of America, New Orleans. May 1996. **Review Status**: Competitive Selection. **Publication Type**: Conference Presentation.

Students

Ph.D.

2010 – : Cara Margherio (Sociology): committee chair.

- 2010 – : 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): committee member.
 2009 – : Romesh Silva (Demography, UC Berkeley): committee member.
 2009 – 2011: Ting Li (Quantitative Ecology and Resource Management): committee member.
 2009 – : Le Bao (Statistics): committee member.
 2008 – : Mark Wheldon (Statistics): committee member.
 2008 – : Greg Matthews (Sociology): committee chair.
 2008 – : David Sharrow (Sociology): committee chair.
 2007 – : Eric Gleave (Sociology): committee member.
 2007 – : Devon Hamilton (Sociology): committee member.
 2006 – 2009: Jason Thomas (Sociology): committee chair.
 2005 – 2008: Leontine Alkema (Statistics), graduated 2008: committee member.

Masters

- 2011 – : Athena Pantazis (Sociology): anticipate 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), graduated 2008: committee member.

Research Interests

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 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 master's 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.

Teaching & Instruction

- 2010 – 2011: 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 – 2011: Sociology 433: 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, see <http://faculty.washington.edu/samclark/Soc433>.
- 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, see <http://faculty.washington.edu/samclark/Soc220>.
- 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, see <http://faculty.washington.edu/samclark/Soc401>.
- 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 master's 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 master’s 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 master’s 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

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

* Number of pages or page numbers not yet known.

** Page numbers not applicable.