

Curriculum Vitae

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Samuel J. Clark

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Education

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

Ph.D. Dissertation

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

Employment

Current & Affiliations

- 2016 – : Professor, Department of Sociology, The Ohio State University, Columbus, Ohio
2016 – : Affiliated Faculty, Department of Statistics, University of Washington, Washington
2016 – : Faculty Affiliate, Institute for Population Research, The Ohio State University, Columbus, Ohio
2016 – : Core Faculty, Translational Data Analytics Institute, The Ohio State University, Columbus, Ohio
2007 – : Senior Researcher, MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt), School of Public Health, University of the Witwatersrand, South Africa

Previous

- 2011 – 2016: Associate Professor, Department of Sociology, University of Washington, Seattle, Washington
2005 – 2011: Assistant Professor, Department of Sociology, University of Washington, Seattle, Washington
2008: Honorary Research Associate, School of Computational and Applied Mathematics, University of the Witwatersrand, South Africa
2007 – 2008: Visiting Senior Researcher, School of Public Health, University of the Witwatersrand, South Africa
2006 – 2015: Affiliate, Population Unit, Institute of Behavioral Science, University of Colorado at Boulder
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 – 2006: Postdoctoral Fellow, Population Unit, Institute of Behavioral Science, University of Colorado at Boulder
- 2001 – 2005: Research Associate, Graduate Group in Demography, University of Pennsylvania

Publications & Manuscripts

Clickable Links to Online Bibliographies

- [NIH National Center for Biotechnology Information \(NCBI\) bibliography](#)
- [Web of Science Publons Profile](#)
- [Google Scholar](#)

Journal Articles

I collaborate with researchers in a range of disciplines (demography, statistics, public health, global health, sociology, anthropology, etc.), and I have adopted the medical publishing convention of occupying the last author slot when I am the (co-)senior investigator on the team and/or have overall responsibility for the research described in the publication. A dagger † indicates the senior author who is responsible for motivating the work, coordinating the research and publication, and raising funds to support the work. An asterisk * indicates a student author.

The [blue](#) text contains links. All published articles have DOI links to the publisher's site. If a link is not included, the article does not yet have a DOI.

Offprints. [Email](#) to request an offprint. Many of the articles listed below are subject to public access mandates by funders. Both [Google Scholar](#) and [Pubmed](#) have a good set of links to access those.

Published

Houle[†], Brian, Chodziwadziwa W Kabudula, Andrea M Tilstra, Sanyu A Mojola, Enid Schatz, SAMUEL J. CLARK, Nicole Angotti, F Xavier Gómez-Olivé, and Jane Menken. 2022. "Twin Epidemics: The Effects of HIV and Systolic Blood Pressure on Mortality Risk in Rural South Africa, 2010-2019." *BMC Public Health* 22 (387). <https://doi.org/10.1186/s12889-022-12791-z>.

Chandramohan[†], D., E. Fottrell, J. Leitao, E. Nichols, SAMUEL J. CLARK, C. Alsokhn, D.C. Munoz, C. AbouZahr, A. Di Pasquale, R. Mswia, E. Choi, F. Baiden, J. Thomas, I. Lyatuu, Z. Li, P. Larbi-Debrah, Y Chu, S. Cheburet, O. Sankoh, A.M. Badr, D.M. Fat, P. Setel, R. Jakob, and D. de Savigny[†]. 2021. "Estimating Causes of Death Where There Is No Medical Certification: Evolution and State of the Art of Verbal Autopsy." *Global Health Action* 14 (sup1). <https://doi.org/10.1080/16549716.2021.1982486>.

Herbst[†], K., S. Juvekar, M. Jasseh, Y. Berhane, N.T.K. Chuk, J. Seeley, O. Sankoh, and SAMUEL J. CLARK. 2021. "Health and Demographic Surveillance Systems in Low- and Middle-income Countries: History, State of the Art and Future Prospects." *Global Health Action* 14 (sup1). <https://doi.org/10.1080/16549716.2021.1974676>.

- Houle[†], Brian, Chodziwadziwa W Kabudula, Alan Stein, Dickman Gareta, Kobus Herbst, and SAMUEL J. CLARK. 2021. “Linking the timing of a mother’s and child’s death: Comparative evidence from two rural South African population-based surveillance studies, 2000–2015.” *PloS one* 16 (2): e0246671. <https://doi.org/10.1371/journal.pone.0246671>.
- Kline, David, Zehang Li, Yue Chu, Jon Wakefield, William C Miller, Abigail Norris Turner, and SAMUEL J. CLARK[†]. 2021. “Estimating seroprevalence of SARS-CoV-2 in Ohio: A Bayesian multilevel poststratification approach with multiple diagnostic tests.” *Proceedings of the National Academy of Sciences* 118 (26). <https://doi.org/10.1073/pnas.2023947118>.
- Turner[†], Abigail Norris, David Kline, Alison Norris, W Gene Phillips, Elisabeth Root, Jonathan Wakefield, Zehang Richard Li, Stanley Lemeshow, Morgan Spahnie, Amanda Luff, Yue Chu, Marcy K. Francis, Maria Gallo, Payal Chakraborty, Megan Lindstrom, Gerard Lozanski, William Miller, and SAMUEL J. CLARK. 2021. “Prevalence of current and past COVID-19 in Ohio adults.” *Annals of epidemiology*, <https://doi.org/10.1016/j.annepidem.2021.11.009>.
- Calvert[†], Clara, Milly Marston, Emma Slaymaker, Amelia C Crampin, Alison Price, Nigel Klein, Kobus Herbst, Denna Michael, Mark Urassa, SAMUEL J. CLARK, Carine Ronsmans, and Georges Reniers. 2020. “Direct Maternal Deaths Attributable to HIV in the Era of ART: Evidence from Three Population-based HIV Cohorts with Verbal Autopsy.” *AIDS* 34 (9): 1397–1405. <https://doi.org/10.1097/QAD.0000000000002552>.
- Gómez-Olivé[†], F. Xavier, Brian Houle, Molly S Rosenberg, Chodziwadziwa W. Kabudula, Sanyu Mojola, Julia Katherine Rohr, SAMUEL J. CLARK, Nicole Angotti, Enid J. Schatz, Kathleen Kahn, Till Bärnighausen, and Jane Menken. 2020. “HIV incidence among older adults in a rural South African setting: 2010-2015.” *Journal of Acquired Immune Deficiency Syndromes* 85 (1): 18–22. <https://doi.org/10.1097%2FQAI.0000000000002404>.
- Houle[†], Brian, Shao-Tzu Yu*, Nicole Angotti, Enid Schatz, Chodziwadziwa Kabudula, F. Xavier Gómez-Olivé, Jane Menken, Sanyu Mojola, and SAMUEL J. CLARK. 2020. “Clusters of HIV Risk and Protective Sexual Behaviors in Agincourt, Rural South Africa: Findings from the Ha Nakekela Population-Based Study of Ages 15 and Older.” *Archives of Sexual Behavior* 49 (6): 2057–2068. <https://doi.org/10.1007/s10508-020-01663-5>.
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- Li*, Zehang (Richard), Tyler H McCormick, and SAMUEL J. CLARK[†]. 2020. “Non-confirming Replication of ‘Performance of InSilicoVA for Assigning Causes of Death to Verbal Autopsies: Multisite Validation Study using Clinical Diagnostic Gold Standards’, BMC Medicine 2018; 16:56.” *BMC Medicine* 18 (69). <https://doi.org/10.1186/s12916-020-01518-9>.
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- Setel[†], Philip, Carla AbouZahr, Emily B Atuheire, Martin Bratschi, Emily Cercone, Oliver Chinganya, Benjamin Clapham, SAMUEL J. CLARK, Carlie Congdon, Don De Savigny, et al. 2020. “Mortality Surveillance during the COVID-19 Pandemic.” *Bulletin of the World Health Organization* 98 (6): 374. <https://doi.org/10.2471/BLT.20.263194>.

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- CLARK[†], SAMUEL J. 2019. “A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality (Reproducibility code).” *Demography* 56 (3): 1131–1159. <https://doi.org/10.1007/s13524-019-00785-3>.
- Jha[†], Prabhat, Dinesh Kumar, Rajesh Dikshit, Atul Budukh, Rehana Begum, Prabha Sati, Patrycja Kolpak, Richard Wen, Shyamsundar J. Raithatha, Utkarsh Shah, Zehang R Li, Lukasz Aleksandrowicz, Prakash Shah, Kapila Piyasena, Tyler H McCormick, Hellen Gelband, and SAMUEL J. CLARK. 2019. “Automated Versus Physician Assignment of Cause of Death For Verbal Autopsies: Randomized Trial of 9374 Deaths In 117 Villages In India.” *BMC Medicine* 17 (116). <https://doi.org/10.1186/s12916-019-1353-2>.
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- mukapa, Fred Nalugoda, Owen Mugurungi, Baltazar Mtenga, Lisa Mills, Denna Michael, Estelle McLean, Nuala McGrath, Emmanuel Martin, Milly Marston, Sewe Maquins, Francis Levira, Catherine Kyobutungi, Daniel Kwaro, Ivan Kasamba, Chifundo Kanjala, Kathleen Kahn, Chodziwadziwa Kabudula, Kobus Herbst, Dickman Gareta, Jeffrey W. Eaton, SAMUEL J. CLARK, Kathryn Church, Menard Chihana, Clara Calvert, Donatien Beguy, Gershim Asiki, Shamte Amri, Ramadhani Abdul, and Basia Zaba[†]. 2016. “Data Resource Profile: Network for Analysing Longitudinal Population-based HIV/AIDS data on Africa (ALPHA Network).” *International Journal of Epidemiology* 45 (1): 83–93. <https://doi.org/10.1093/ije/dyv343>.
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- 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. <https://csss.uw.edu/files/working-papers/2009/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. <https://csss.uw.edu/files/working-papers/2008/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. <https://csss.uw.edu/files/working-papers/2008/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. <https://csss.uw.edu/files/working-papers/2008/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. <https://csss.uw.edu/files/working-papers/2007/wp69.pdf>.

Research Support

Current

Bill and Melinda Gates Foundation, Invited Project: \$700,000 per year. 2022. *Global Pathology-informed Reference Death Archive for Verbal Autopsy*. CLARK, SAMUEL J. (PI). Period: 2022–2025. **Role: Principal Investigator**. Principal Authors: S. J. CLARK. Hosting Institution: The Ohio State University.

NIH: NICHD, R01 No. 1R01HD086227: \$490,000 per year. 2016. *Verbal Autopsy: Reimagining Data & Automated Cause Assignment (using ALPHA Network data)*. CLARK, SAMUEL J. (PI). Period: 2016–2023. **Role: Principal Investigator**. Principal Authors: S. J. CLARK, T. H. McCormick. Hosting Institution: The Ohio State University.

Completed

Vital Strategies contract: \$25,000. 2021. *COVID Rapid Mortality Surveillance*. CLARK, SAMUEL (PI). Period: 2021 **Role: Project Leader**. Principal Author: S. J. CLARK. Hosting Institution: OSU.

Ohio Department of Health contract: \$619,450. 2020. *State of Ohio’s COVID-19 recovery response management activities*. Seiber, Eric (PI). Period: June 2020–July 2021 **Role: Co-Investigator**. Hosting Institution: OSU.

Vital Strategies contract: \$41,000. 2020. *WHO 2016 Standard VA Item Reduction*. CLARK, SAMUEL (PI). Period: March 2020–August 2020 **Role: Project Leader**. Principal Author: S. J. CLARK. Hosting Institution: OSU.

Vital Strategies contract: \$33,000. 2019. *The openVA Pipeline Phase III*. CLARK, SAMUEL (PI). Period: October 2019–March 2020 **Role: Project Leader**. Principal Author: S. J. CLARK. Hosting Institution: OSU.

Bill and Melinda Gates Foundation, Invited Project. 2018. *Demand for Modern Contraception in sub-Saharan Africa: New Methods, New Evidence*. Casterline, John and Clark, Samuel (PI). Period: 2018–2021. **Role: Co-PI**. Principal Authors: J. Casterline and S. J. CLARK. Hosting Institution: Institute for Population Research, The Ohio State University.

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

OSU IPR Seed grant: \$60,000. 2017. *A General Mortality Modeling Framework in the Era of the SDGs*. CLARK, SAMUEL J. (PI). Period: 2017. **Role: Principal Investigator**. Principal Authors: S. J. CLARK. Hosting Institution: The Ohio State University Institute for Population Research (IPR).

Bill and Melinda Gates Foundation, Invited Project. \$1,500,000. 2015. *Supplement to ‘Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment’*. Zaba, Basia (PI), Period: 2014-2016 (24 months, extended). **Role: Co-Applicant**. Principal Authors: B. Zaba, J. Todd, G. Reniers and S. J. CLARK. Hosting Institution: London School of Hygiene and Tropical Medicine.

- London School of Hygiene and Tropical Medicine, Subaward. \$240,000. 2015. *Supplement to 'Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment'*. CLARK, SAMUEL J. (PI). Period: 2014-2016 (24 months). **Role: Principal Investigator.** Principal Authors: S. J. CLARK, T. McCormick and B. Zaba. Hosting Institution: University of Washington.
- Center for Studies in Demography and Ecology (CSDE), University of Washington, Seed Grant: \$20,000. 2014. *Survey-based Cause of Death Assignment*. McCormick, Tyler and CLARK, SAMUEL J. (PI). Period: 2014. **Role: Co-Principal Investigator.** Principal Authors: T. McCormick and S. J. Clark. Hosting Institution: University of Washington.
- Wellcome Trust, Strategic Award. \$425,000 per year. 2014. *Preventing Cardiometabolic Diseases in Africa: Life-Course and Multi-sector Approaches*. Tollman, Stephen M. (PI). Period: 2014-2016. **Role: Co-Applicant.** Principal Authors: S. M. Tollman, K. Kahn, S. J. CLARK, S. Norris. Hosting Institution: University of the Witwatersrand.
- Bill and Melinda Gates Foundation, Invited Project. \$1,398,000 per year. 2013. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. Zaba, Basia (PI). Period: 2013-2015 (30 months, extended). **Role: Co-Applicant.** Principal Authors: B. Zaba, J. Todd, G. Reniers and S. J. CLARK. Hosting Institution: London School of Hygiene and Tropical Medicine.
- ICF-I & US Agency for International Development (USAID) contract: \$114,000. 2013. *Exploring the Hyak Real-time Health and Population Measurement Platform in Tanzania using DHS Surveys and Health and Demographic Surveillance System Data*. CLARK, SAMUEL J. (PI). Period: 2013. **Role: Principal Investigator.** Principal Authors: S. J. CLARK, J. Wakefield and T. McCormick. Hosting Institution: University of Washington.
- London School of Hygiene and Tropical Medicine, Subaward. \$73,000 per year. 2013. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. CLARK, SAMUEL J. (PI). Period: 2013-2015 (30 months, extended). **Role: Principal Investigator.** Principal Authors: S. J. CLARK, T. McCormick and B. Zaba. Hosting Institution: University of Washington.
- NIH: NICHD R01 No. R01HD070936: \$295,000 per year. 2012. *Probabilistic Population Projections for All Countries*. Raftery, A. E. (PI). Period: 2012-2017. **Role: Investigator.** Principal Author: A. E. Raftery. Hosting Institution: University of Washington.
- Center for Studies in Demography and Ecology (CSDE), University of Washington, Seed Grant: \$15,000. 2009. *A New Look at Indirect Methods for Estimating Demographic Indicators: Evaluation, Validation and Reformulation*. CLARK, SAMUEL J. (PI). Period: Summer 2009. **Role: Principal Investigator.** Principal Author: S. J. CLARK. Hosting Institution: University of Washington.
- Wellcome Trust, Programme Grant: No. 090959/Z/09/Z. \$360,000 (200,000 pounds sterling) per year. 2009. *Collaborative Network for Data Analysis in African Community-Based, Longitudinal HIV Studies*. Zaba, Basia (PI). Period: 04/01/2010 – 03/31/2015 (extended). **Role: Co-Applicant.** Principal Authors: B. Zaba, V. Hosegood, S. J. CLARK, D. Mayer and J. Kagaayi. Hosting Institution: London School of Hygiene and Tropical Medicine.
- Wellcome Trust, Programme Grant: No. 085477/Z/08/Z: \$850,000 (575,000 pounds sterling) per year. 2008. *Health, Population and Social Transitions in Rural South Africa: Elucidating Pathways and Testing Interventions*. Tollman, Stephen M. (PI). Period: 2008 – 2012. **Role: Co-Applicant.** Prin-

- Principal Authors: S. M. Tollman, K. Kahn, M. A. Collinson and S. J. CLARK. Hosting Institution: University of the Witwatersrand.
- CSSS, University of Washington. Seed Grant: \$20,000. 2007. *Estimating HIV Prevalence in Africa by Applying Bayesian Melding to a Cohort Component Projection Model*. CLARK, SAMUEL J. (PI). Period: 2007. **Role: Principal Investigator**. Principal Author: S. J. CLARK. Hosting Institution: University of Washington.
- NIH: NIA, R24: No. R24AG032112: \$300,000 per year. 2007. *Deaths Among HIV Infected Adults in African Populations since the Introduction of Antiretroviral Treatment*. Menken, Jane; Tollman, Stephen and CLARK, SAMUEL J. (Co-PIs). Period: 09/30/2007 – 08/31/2012. **Role: Co-Principal Investigator**. Principal Authors: S. J. CLARK, J. Menken and S. M. Tollman. Hosting Institution: University of Colorado at Boulder.
- NIH: NICHD R01 No. R01HD054511: \$320,000 per year. 2007. *Assessing Uncertainty in Population Projection Models via Bayesian Melding*. Raftery, A. E. (PI). Period: 2007-2011. **Role: Investigator**. Principal Author: A. E. Raftery. Hosting Institution: University of Washington.
- NIH: NICHD, K01: No. K01HD057246: \$115,000 per year. 2007. *Predicting Impacts of Infectious Disease on Structure and Dynamics of Populations*. CLARK, SAMUEL J. (PI). Period: 06/15/2008 – 09/31/2013. **Role: Principal Investigator**. Principal Author: S. J. CLARK. Hosting Institution: University of Washington.
- University of California, Los Angeles, Subaward: \$50,000 per year. 2007. *Design and Implementation of MIPopLab Demographic Surveillance System Data Management System*. CLARK, SAMUEL J. (PI). Period: 09/21/2007 – 09/31/2014. **Role: Principal Investigator**. Principal Authors: S. J. CLARK and P. Heuveline. Hosting Institution: University of Washington.
- NIH: NIA, R03 No. R03AG028640: \$45,000 per year. 2006. *Extending Access to Data from Demographic Surveillance System Sites in Africa*. CLARK, SAMUEL J. (PI). Period: 09/15/2006 – 06/30/2008 extended 06/30/2009. **Role: Principal Investigator**. Principal Author: S. J. CLARK. Hosting Institution: University of Colorado at Boulder.
- NIH: FIC (Fogarty International Center), R25 No. R25TW007491: \$125,000 per year. 2005. *Framework in Global Health: Local to Global Health*. Kimball, Ann-Marie (PI). Period: 09/21/2005 – 07/31/2006. **Role: Instructor**. Principal Authors: A-M. Kimball and M. Morris. Hosting Institution: University of Washington.
- NIH: NICHD, R03: No. R03HD041537: \$50,000 per year. 2004. *Cambodia between the Khmers Rouges and the Red Plague?* Heuveline, P. (PI). Period: 2002 – 2004. **Role: Consultant**. Principal Author: P. Heuveline. Hosting Institution: University of Chicago.
- NIH: NIA, Supplement to R37 No. 3 R37AG10168-09S2: \$50,000. 1999. *Racial and Ethnic Mortality Differences at Older Ages*. Preston, Samuel H. (PI). Period: 1999 – 2001. **Role: Author/Principal Investigator of Supplement**. Principal Author: S. J. CLARK. Hosting Institution: University of Pennsylvania.
- NSF: No. SBR-9505738. \$100,000 per year. 1995. *Long Term Study of Social Change in Rural Zambia*. Scudder, T. (PI). Period: 08/01/1995 – 07/31/1998. **Role: Investigator**. Principal Authors: T. Scudder, E. Colson and S. J. CLARK. Hosting Institution: California Institute of Technology (Caltech).

Software

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

CLARK, SAM, Zehang Li, Jason Thomas, Choi Eungang, Tyler McCormick, Peter Byass, and Nicolas Maire. 2020. *openVA Github Site*. <http://openva.net>.

Eungang, Choi, SAM CLARK, Zehang Li, Nicolas Maire, and Jason Thomas. 2020. *CrossVA: Verbal Autopsy Data Transform for Use with Various Coding Algorithms*. <https://cran.r-project.org/package=CrossVA>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2020. *InSilicoVA: Probabilistic Verbal Autopsy Coding with 'InSilicoVA' Algorithm*. <https://cran.r-project.org/package=InSilicoVA>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2020. *openVA: Automated Method for Verbal Autopsy*. <https://cran.r-project.org/package=openVA>.

Martin, Bryan D, Zehang R Li, Yuan Hsiao, Jessica Godwin, Jon Wakefield, and SAMUEL J. CLARK. 2020. *SUMMER: Spatio-Temporal Under-Five Mortality Methods for Estimation*. <https://cran.r-project.org/package=SUMMER>.

Thomas, Jason, Choi Eungang, Martin Bratschi, and SAM CLARK. 2020. *openVA Pipeline between ODK and DHIS-2*. https://github.com/verbal-autopsy-software/openva_pipeline.

Thomas, Jason, Zehang Li, Tyler McCormick, and SAM CLARK. 2020. *R Shiny App for using openVA*. <https://github.com/verbal-autopsy-software/shinyVA>.

Thomas, Jason, Zehang Li, Tyler McCormick, SAM CLARK, and Peter Byass. 2020. *InterVA5: Replicate and Analyse 'InterVA5'*. <https://cran.r-project.org/package=InterVA5>.

CLARK, SAMUEL J. 2019. *Download and Parse USA Mortality Data from usa.mortality.org*. <https://github.com/sinafala/usa-mortality>.

CLARK, SAMUEL J. 2019. *Model Verbal Autopsy (VA) Algorithms*. <https://github.com/sinafala/model-va-algorithms>.

CLARK, SAMUEL J. 2019. *Replication Code for A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality*. <https://github.com/sinafala/svd-comp>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2019. *InterVA4: Replicate and Analyse 'InterVA4'*. <https://cran.r-project.org/package=InterVA4>.

Li, Zehang, Tyler McCormick, and SAM CLARK. 2019. *Tariff: Replicate Tariff Method for Verbal Autopsy*. <https://cran.r-project.org/package=Tariff>.

Recent Invited Contributions

CLARK, SAMUEL J. 2022. *SVD Component Model of Mortality: SVD-Comp*. Symposium: SELECT – Climbing Mortality Models. Misurina, Italy: August 30 – September 2, 2022. <https://selectprin.github.io/Meeting3.html>.

CLARK, SAMUEL J. 2021. *Global Population Studies: Shaping the Future*. Discussant's remarks by CLARK, SAMUEL J. at the 16th Annual De Jong Lecture in Social Demography, School of Gerontology, Population Research Institute, Pennsylvania State University. Penn State: October, 2021.

- CLARK, SAMUEL J. 2021. *Demography, Epidemiology, and Statistics: What's Next?* Presentation by CLARK, SAMUEL J. London School of Hygiene and Tropical Medicine: April 2021.
- CLARK, SAMUEL J. 2021. *Session 33: Methodological Innovations in Mortality*. Session Discussant at *The Annual Meetings of the Population Association of America*. Virtual: May 5–8, 2021.
- CLARK, SAMUEL J. 2021. *TMLE Metric of Item Importance and Unified Summary of Quantitative Metrics of Item Performance*. Final Phase: WHO Standard VA Item Reduction Workshop. Zoom: May 2–5, 2021.
- CLARK, SAMUEL J. 2020. *Demography and the Data Revolution: lessons learned and the way forward*. Panel Member participation by CLARK, SAMUEL J. at the *International Union for the Scientific Study of Population (IUSSP) Webinar Series*. Zoom: November, 2020. <https://iussp.org/en/iussp-webinar-demography-and-data-revolution-lessons-learned-and-way-forward>.
- CLARK, SAMUEL J. 2020. *Global Population Studies in the 21st Century: Priorities Challenges - Mortality*. Presentation by CLARK, SAMUEL J. at the *Population Europe's 'Berlin Demography Days'*. Berlin, Germany: cancelled due to COVID-19: March, 2020.
- CLARK, SAMUEL J. 2020. *Partly Characterizing the CV19 Epidemic in Ohio and Beyond*. Presentation by CLARK, SAMUEL J. at the *Multidisciplinary Research in Gerontology Colloquium Series, School of Gerontology, University of Southern California*. Zoom: October, 2020.
- CLARK, SAMUEL J. 2020. *SVD Component Mortality Model*. Presentation by CLARK, SAMUEL J. at the *United Nations Population Division (UNPD) Experts' Group Meeting '2020 Methods for the World Population Prospects 2021 and Beyond'*. Zoom: April, 2020.
- CLARK, SAMUEL J. 2020. *Working title: Small-area Estimation*. Session Co-organized with Jon Wakefield at the *International Statistical Institute (ISI) Third Regional Statistics Conference and International Association for Official Statistics (IAOS) Conference*. Livingston, Zambia: cancelled due to COVID-19: May, 2020.
- CLARK, SAMUEL J. 2019. Participant, WHO Verbal Autopsy Reference Group Advisory Meeting. Sponsored by WHO. Geneva: March 2019.
- CLARK, SAMUEL J. 2019. Continuous Advisor on Variety of Topics, WHO Verbal Autopsy Reference Group. Geneva: Ongoing throughout 2019.
- CLARK, SAMUEL J. 2019. *A General Mortality Model & Moving Verbal Autopsy from Research to Routine Use*. Presentation by CLARK, SAMUEL J. at the *ANU School of Demography Seminar*. Canberra: July 2019.
- CLARK, SAMUEL J. 2019. *A General Mortality Model & Moving Verbal Autopsy from Research to Routine Use*. Presentation by CLARK, SAMUEL J. at the *Department of Demography Colloquium, UC Berkeley*. Berkeley: September 2019.
- CLARK, SAMUEL J. 2019. *SVD-derived Life Tables indexed by Child Mortality*. Presentation by CLARK, SAMUEL J. at *International Workshop on Subnational Life Tables*. Sponsored by the Australia National University. Canberra: October 15–17, 2019.
- CLARK, SAMUEL J., and Tyler H McCormick. 2019. *Session 2019 'Statistical Advances in High Resolution Modeling for Health and Mortality Outcomes'*. CLARK, SAMUEL J. Co-organizer and Chair at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Austin: April 10–13, 2019.

- CLARK, SAMUEL J. 2018. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. Washington, D.C.: September 2018.
- CLARK, SAMUEL J. 2018. Presenter, IPR Colloquium. Institute for Population Research (IPR), The Ohio State University, Columbus, Ohio, USA: January 2018.
- CLARK, SAMUEL J. 2017. Participant, WHO Maternal and Child Epidemiology Estimation Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: November 2017.
- CLARK, SAMUEL J. 2017. Participant, INDEPTH Founders' Meeting. Accra, Ghana: December 2017.
- CLARK, SAMUEL J. 2017. Presenter, Swiss TPH Colloquium. Sponsored by Swiss TPH. Swiss Tropical and Public Health Institute (Swiss TPH), Basel, Switzerland: June 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: September 2017.
- CLARK, SAMUEL J. 2017. Participant, Swiss TPH Verbal Autopsy and Sampling Meeting. Sponsored by Swiss TPH and D4H. Swiss Tropical and Public Health Institute (Swiss TPH), Basel, Switzerland: August 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Regional Office, Accra, Ghana: December 2017.
- CLARK, SAMUEL J. 2017. Participant/Presenter, Human Mortality Database Symposium. Sponsored by the Human Mortality Database (HMD) Project. Berlin, Germany: May 2017.
- CLARK, SAMUEL J. 2017. Scientific Advisory Committee Member, ALPHA Network Scientific Advisory Committee Meeting. Sponsored by ALPHA Network. Nairobi, Kenya: March 2017.
- CLARK, SAMUEL J. 2017. Participant in Gulf Research Program Opportunity Analysis Meeting *Tracking Coastal Community Resilience to Environmental Disasters* sponsored by the National Academies of Sciences (NAS). NAS, Washington, D.C.: February 2017.
- CLARK, SAMUEL J. 2017. Member/Participant, WHO Reference Group on Health Statistics. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2017.
- CLARK, SAMUEL J. 2017. *Small Area Estimates of Child Mortality*. Participant/Presenter at UN Inter-agency Group for Child Mortality Estimation Technical Advisory Group Meeting. Sponsored by UNICEF. UNICEF Headquarters, New York, USA: May 2017 **and** December 2017.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2016.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Civil Registration and Vital Statistics Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: March 2016.
- CLARK, SAMUEL J. 2016. Member/Participant, WHO Verbal Autopsy Working Group Meeting. Sponsored by WHO. WHO Headquarters, Geneva, Switzerland: July 2016.
- CLARK, SAMUEL J. 2016. Panelist at UN Statistics (UNSD) Meeting *Global Preparatory Seminar for the United Nations Data Forum*. Sponsored by UNSD. Guilin, China: September 2016.
- CLARK, SAMUEL J. 2016. *Small Area Estimation of Child Mortality from DHS Surveys: Discrete- and Continuous-Space Approaches*. Participant/Presenter at UN Inter-agency Group for Child Mortal-

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

Selected Workshops & Conferences Organized

- CLARK, SAMUEL J. 2020. *Item-Reduction Methods Training Workshop Related to WHO2016 Standard VA Instrument*. Three-day international workshop co-organized by CLARK, SAMUEL J. Sponsored by World Health Organization (WHO) Verbal Autopsy Reference Group, CDC Foundation, and 'Data for Health' Partners. Zoom: November, 2020.
- CLARK, SAMUEL J. 2020. *openVA Training Workshop for South Africa*. Four-Day international workshop co-organized by CLARK, SAMUEL J. Sponsored by CDC Foundation. Zoom: May, 2020.
- CLARK, SAMUEL J. 2020. *Quantitative Methods and Results for Item-Reduction Related to the WHO2016 Standard VA Instrument*. Four-day international workshop co-organized by CLARK, SAMUEL J. Sponsored by World Health Organization (WHO) Verbal Autopsy Reference Group, CDC Foundation, and 'Data for Health' Partners. Zoom: July, 2020.
- Legrand, Tom, Romesh Silva, Dennis Feehan, and SAMUEL J. CLARK. 2019. *Expert Group Meeting on Population Data for the 21st century: Advances in data collection methodologies*. Three-Day Expert Group Meeting organized by Legrand, Tom; Silva, Romesh; Feehan, Dennis and CLARK, SAMUEL J. Sponsored by the International Union for the Scientific Study of Population (IUSSP), UNFPA, IDRC, and the Hewlett Foundation. New York: December 4–6, 2019.
- CLARK, SAMUEL J. 2018. *Mortality Monitoring in the Era of the SDGs*. Three-day training workshop organized by CLARK, SAMUEL J. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Rostock: December 2018.
- CLARK, SAMUEL J., Choi Eungang, Jason Thomas, and Zehang Li. 2018. *openVA Training Workshop*. One-week training workshop organized by CLARK, SAMUEL J. Sponsored by Vital Strategies and Bloomberg Data 4 Health. Columbus: November 2018.
- CLARK, SAMUEL J., Choi Eungang, Jason Thomas, and Alex Vue. 2018. *openVA Pipeline Training Workshop*. One-week training workshop organized by CLARK, SAMUEL J. Sponsored by Vital Strategies and Bloomberg Data 4 Health. Singapore: May 2018.
- Li, Zehang, Jon Wakefield, and SAMUEL J. CLARK. 2018. *Bayesian Small Area Estimation using Complex Survey Data: Methods and Applications*. Two-day training workshop organized by CLARK, SAMUEL J. at the Meeting of the Asian Population Association. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Shanghai: July 2018.
- Li, Zehang, Jon Wakefield, and SAMUEL J. CLARK. 2018. *Bayesian Small Area Estimation using Complex Survey Data: Methods and Applications*. Two-day training workshop organized by CLARK, SAMUEL J. at The Annual Meetings of the Population Association of America. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Denver: April 2018.

Selected Professional Activities/Service

- 2022: [With Brian Houle and Jonathan Muir](#) and working closely with the UN Population Division, developed an SVD-based mortality model for use with populations affected by HIV. We created an R package for the model that was used in the preparation of the 2022 version of the UN's biannual global estimates and projections – [World Population Prospects](#)
- 2021: Council Organizing Committee, International Union for the Scientific Study of Population (IUSSP) International Population Conference, Online December 2021

Curriculum Vitae – Samuel J. Clark

- 2021–present: Elected member of the Population Association of America Publications Committee
- 2020: Chaired emergency, expedited NIH NIAID Review Panel for COVID-19 applications
- 2020: March, 2020 → January, 2021 intensive support for the joint Ohio State University and state of Ohio Department of Health COVID-19 response, including state-wide SARS-CoV-2 prevalence study, state-wide excess deaths study, and weekly telephone survey of Ohio adults
- 2020–present: Significant (weekly) *ad hoc* support for the World Health Organization Verbal Autopsy Reference Group (VARG) focused on item reduction and redesign of World Health Organization standard verbal autopsy instrument
- 2020: *Ad hoc* COVID-19-related support to the International Union for the Scientific Study of Population (IUSSP)
- 2020: Multiple interviews with news organizations related to COVID-19
- 2019–present: Multiple external review letters for tenure/promotion processes
- 2019: Organized the production of online training materials for small-area estimation of demographic indicators using complex survey data for International Union for the Scientific Study of Population (IUSSP):
<https://iussp.org/en/small-area-estimation-training-materials>
- 2019: International Union for the Scientific Study of Population (IUSSP) Annual Council Meeting
- 2018: International Union for the Scientific Study of Population (IUSSP) Annual Council Meeting
- 2018 – 2021: Elected member of the International Union for the Scientific Study of Population (IUSSP) Council
- 2015: External review for tenure processes
- 2014 – 2015: Participate in UNAIDS Reference Group on Estimates, Modeling and Projections
- 2014 – 2019: Participate in WHO Working Group on Civil Registration and Vital Statistics
- 2014 – : Participate in WHO Working Group turned Reference 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: Organized two sessions for the annual meeting of the Population Association of America in New Orleans, 2013
- 2012: External review for tenure process and article reviews for various journals
- 2012: Participation on two NIH review panels
- 2011: Participation on a NSF review panel
- 2010 – : Scientific Advisory Committee for the INDEPTH Network
- 2010 – 2012: Deputy Editor (one of twelve) of the journal Demography

Curriculum Vitae – Samuel J. Clark

- 2008 – 2009: Senior advisor/co-applicant on current round of core funding for Agincourt Health and Demographic Surveillance System site run by the School of Public Health, University of the Witwatersrand, South Africa
- 2008 – 2018: Member of Editorial Board for INDEPTH Network Mortality Project
- 2006 – 2018: Advisory Group for planned INDEPTH Network Data System initiative
- 2005 – 2010: Scientific Advisory Committee for the South African Centre for Epidemiological Modeling and Analysis (SACEMA)
- 2005 – : Scientific Advisory Committee for the ALPHA Network of epidemiological field sites in Africa, coordinated at the London School of Hygiene and Tropical Medicine
- 1998 – 2018: Participant and sometimes co-Coordinator of Technical Working Group of the INDEPTH Network
- 2008 – 2010: Participation on NIH review panels
- 2008 – 2009: Reviewed grant applications for Swedish National Science Foundation
- 2008 – 2009: Invited participation in Wellcome Trust 'Data Sharing' policy planning workshop
- 2007 – 2008: Invited presentation in colloquium series of the Graduate Group in Demography at the University of Pennsylvania
- 2007 – 2008: Invited presentation to a Wellcome Trust-organized panel discussing 'North-South Networking' in the context of population and health research
- 2006 – 2007: Served on Demography Masters Examination Committee, Commerce Department, University of Cape Town, South Africa
- 2006 – 2007: Served on Field Epidemiology Masters Examination Committee, School of Public Health, University of the Witwatersrand, South Africa
- 2004 – 2005: Executive Committee of the South African Centre for Epidemiological Modeling and Analysis (SACEMA)

Honors, Awards & Small Grants

- 2021: OSU College of Arts and Sciences [Joan M. Huber Faculty Fellows](#) Award
- 2013: Co-recipient of INDEPTH Network '2013 INDEPTH Prize for Extraordinary Research in Population and Health at INDEPTH Sites', awarded at 2013 INDEPTH International Scientific Conference in Johannesburg, South Africa for article published in PLoS Medicine on Agincourt Health and Demographic Surveillance System Data
- 2010: 'Graduate Mentorship Award,' Department of Sociology, University of Washington
- 2009: Co-recipient of INDEPTH Network '2009 INDEPTH Prize for Extraordinary Research in Population and Health at INDEPTH Sites', awarded at 2009 INDEPTH AGM in Pune, India for article published in Lancet on Agincourt Health and Demographic Surveillance System Data
- 1996 – 1997: Fulbright Student Fellowship, University of Pennsylvania and the Institute for African Studies at the University of Zambia, Zambia
- 1995 – 1998: National Science Foundation Graduate Research Fellow, University of Pennsylvania

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

Selected Consulting (alphabetic order)

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

Selected Recent Talks, Papers & Presentations

- Houle, Brian, Jonathan Muir, Sara Hertog, Francois Pelletier, Samuel J. Clark, and Patrick Gerland. 2022. *Application of a Singular Value Decomposition-based Factorization and Parsimonious Component Model of Mortality to HIV Epidemics in Africa*. Presentation by Samuel Clark at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Atlanta: April 6-8.
- Houle, Brian, Jonathan Muir, Chodziwadziwa Kabudula, and Samuel J. Clark. 2022. *The Timing of Sibling Mortality in the Widespread Antiretroviral Treatment Era: Comparative Evidence from Population-based Surveillance in Rural South Africa*. Presentation by Brian Houle at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Atlanta: April 6-8.
- Muir, Jonathan, Brian Houle, Samuel J. Clark, and Solveig Cunningham. 2022. *Sibling Mortality in Developing Countries: A Cross Regional Study*. Presentation by Brian Houle at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Atlanta: April 6-8.
- Chu, Yue, and SAMUEL J. CLARK. 2021. *Indirect Estimation of Mortality Schedule From Summary Birth History: A Singular Value Decomposition-Based Bayesian Approach*. Presentation by Yue Chu at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Virtual: May 5-8.

- Houle, Brian, Chodziwadziwa W Kabudula, F. Xavier Gómez-Olivé, Andrea Tilstra, Sanyu A Mojola, Enid Schatz, SAMUEL J. CLARK, Nicole Angotti, and Jane Menken. 2021. *Twin Epidemics: Interaction Effects of HIV and Hypertension on Mortality Risk in Rural South Africa, 2010–2016*. Presentation by Brian Houle at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Virtual: May 5-8.
- Houle, Brian, Chodziwadziwa W Kabudula, Sanyu A Mojola, Nicole Angotti, F. Xavier Gómez-Olivé, SAMUEL J. CLARK, and Vladimir Canudas-Romo. 2021. *Life Span Inequality During the Unfolding Counter-Epidemiological Transition in Rural South Africa, 1994–2018*. Presentation by Brian Houle at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Virtual: May 5-8.
- Houle, Brian, Chodziwadziwa W Kabudula, Alan Stein, Dickman Gareta, and SAMUEL J. CLARK. 2021. *Household Structure, Composition, and Child Mortality in the Unfolding Antiretroviral Therapy Era in Rural South Africa: Comparative Evidence From Population Surveillance, 2000–2015*. Presentation by Brian Houle at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Virtual: May 5-8.
- Muir, Jonathan, and SAMUEL J. CLARK. 2021. *Echoing Through Time: Intergenerational Effects of Exposure to Armed Conflict, Genocide, and Famine as Determinants of Child Mortality*. Presentation by Jonathan Muir at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Virtual: May 5-8.
- Houle, Brian, and SAMUEL J. CLARK – partial list. 2020. *Working title: Household context and child mortality in the unfolding antiretroviral therapy era in rural South Africa: Comparative evidence from population surveillance, 2000-2015*. Cancelled due to COVID-19: Poster at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington D.C.: April, 2020.
- Muir, Jonathan, and SAMUEL J. CLARK – partial list. 2020. *Working title: Echoing through Time: Intergenerational Effects of Khmer Rouge Era Traumas on Child Mortality in Cambodia*. Cancelled due to COVID-19: Presentaiton at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington D.C.: April, 2020.
- Wakefield, Jon, and SAMUEL J. CLARK – partial list. 2020. *Working title: A New Model for Small Area Estimation, with Application to Subnational Under-5 Mortality Risk Estimation in Africa*. Cancelled due to COVID-19: Presentaiton at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington D.C.: April, 2020.
- CLARK, SAMUEL J., Zehang Richard Li, and Tyler H MccCormick. 2019. *Quantifying the Contributions of Training Data and Algorithm Logic to the Performance of Automated Cause-Assignment Algorithms for Verbal Autopsy*. Poster presentation by CLARK, SAMUEL J. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Austin: April 10-13.
- Gómez-Olivé[†], F. Xavier, Brian Houle, Molly S Rosenberg, Sanyu Mojola, SAMUEL J. CLARK, Chodziwadziwa W. Kabudula, Nicole Angotti, Enid J. Schatz, Kathleen Kahn, Julia Katherine Rohr, Jane Menken, and Till Bärnighausen. 2019. *HIV Incidence Among Older Adults in a Rural South African Setting: 2010–2015*. Presentation by Gómez-Olivé, F. Xavier at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Austin: April 10-13.
- Hassan, Anushe, Clara Calvert, Mia Crampin, Abraham Herbst, Mark Urassa, Emma Slaymaker, SAMUEL J. CLARK, and Georges Reniers. 2019. *The Performance of Verbal Autopsy Tools for*

- Capturing HIV/AIDS-Related Mortality in Sub-Saharan Africa*. Poster presentation by Reniers, Georges at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Austin: April 10-13.
- Houle, Brian, and SAMUEL J. CLARK. 2019. *Interviewer Effects in Interviews about Health and Epidemiological Risk Factors*. Presentation by Houle, Brian and CLARK, SAMUEL J. at *the International Conference on Communication, Medicine and Ethics (COMET)*. Sponsored by the University of South Australia. Adelaide: June 26–28, 2019.
- Houle, Brian, Chodiwadziwa Kabudula, Kobus Herbst, and SAMUEL J. CLARK. 2019. *A Mother's Death and Child Survival: A Comparative Analysis of Two Demographic Surveillance Sites in Rural South Africa*. Poster presentation by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Austin: April 10-13.
- Li*, Zehang (Richard), Tyler H McCormick, and SAMUEL J. CLARK[†]. 2019. *Bayesian Joint Spike-and-Slab Graphical Lasso*. Paper presented by Zehang Li at the *International Conference on Machine Learning*. (ICML). San Diego: June 10-15 2019.
- CLARK, SAMUEL J. 2018. *A Singular Value Decomposition (SVD) Component Model of Mortality Indexed By Child or Both Child and Adult Mortality*. Presentation by Clark, Samuel at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Denver: April 2018.
- CLARK, SAMUEL J. 2018. *Data Disaggregation and SDG Monitoring*. Presentation by Clark, Samuel at *Meeting of the Population Association of Latin America*. Sponsored by Population Association of Latin America (ALAP). Puebla, Mexico: October 2018.
- CLARK, SAMUEL J. 2018. *The Role of Big Data for Public Policy Monitoring*. Presentation by Clark, Samuel at *Meeting of the Population Association of Latin America*. Sponsored by Population Association of Latin America (ALAP). Puebla, Mexico: October 2018.
- CLARK, SAMUEL J. 2018. *Verbal Autopsy: Various Considerations*. Presentation by Clark, Samuel at *16th International Conference on Communication, Medicine, and Ethics: COMET*. Birmingham, England: June 2018.
- Pantazis, Athena, and SAMUEL J. CLARK. 2018. *Age-Specific Fertility Regimes and Fertility Transition: Testing African Exceptionalism and the Implicit Relationships Between Determinants of Fertility Decline and Fertility Age Patterns*. Poster by Clark, Samuel at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Denver: April 2018.
- Calvert, Clara, Alison Price, Emma Slaymaker, Georges Reniers, Kobus Herbst, Denna Michael, SAMUEL CLARK, Basia Zaba, and Amelia Crampin. 2017. *Beyond AIDS-related deaths: calculating the risk of non-communicable disease mortality attributable to HIV from verbal autopsy data*. Presentation by Calvert, Clara at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- CLARK, SAMUEL. 2017. *A General Age-Specific Mortality Model with An Example Indexed by Child or Child/Adult Mortality*. Presentation by CLARK, SAMUEL at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.

- Houle, Brian, Nicole Angotti, Enid Schatz, F. Xavier Gómez-Olivé, SAMUEL CLARK, Jill Williams, Chodziwadziwa Kabudula, Stephen Tollman, and Jane Menken. 2017. *Sexual behavior and HIV risk across the life course in rural South Africa: trends and comparisons*. Presentation by Houle, Brian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Houle, Brian, Chodziwadziwa Kabudula, Kobus Herbst, and SAMUEL CLARK. 2017. *A mother's death and child survival: Comparisons between two demographic surveillance sites in rural South Africa*. Poster presentation by Houle, Brian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Houle, Brian, Sanyu A. Mojola, Nicole Angotti, Enid Schatz, F. Xavier Gómez-Olivé, SAM CLARK, Jill Williams, Chodziwadziwa Kabudula, Stephen Tollman, Kathleen Kahn, and Jane Menken. 2017. *Sexual Behavior and HIV Risk Across the Life Course in Rural South Africa: Trends and Comparisons*. Poster presented by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.
- Kabudula, Chodziwadziwa, Brian Houle, Mark Collinson, Kathleen Kahn, F. Xavier Gómez-Olivé, Stephen Tollman, and SAM CLARK. 2017. *Social Patterns and Differentials in the Mortality Transition in Rural South Africa: Findings From Population Surveillance in Agincourt, 1993–2013*. Presentation by Kabudula, Chodziwadziwa at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.
- Kabudula, Chodziwadziwa, Brian Houle, Mark Collinson, Kathleen Kahn, F. Xavier Gómez-Olivé, Stephen Tollman, and SAMUEL CLARK. 2017. *Persistent socioeconomic gradient in HIV/AIDS mortality in the era of antiretroviral therapy in rural South Africa: Findings from population surveillance in Agincourt, 2001- 2013*. Poster presentation by Kabudula, Chodziwadziwa at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Pantazis, Athena, and SAMUEL CLARK. 2017. *Age-Specific Fertility Regimes and Fertility Transition: Testing African Exceptionalism and the Implicit Relationships between Determinants of Fertility Decline and Fertility Age Patterns*. Poster presentation by CLARK, SAMUEL at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Sharrow, David, Jessica Godwin, Yanjun He, SAMUEL CLARK, and Adrian Raftery. 2017. *Probabilistic Population Projections for Countries with Generalized HIV/AIDS Epidemics*. Presentation by Rafter, Adrian at *The XXVIII International Population Conference*. Sponsored by the International Union for the Scientific Study of Population (IUSSP). Cape Town, South Africa: October–November 2017.
- Sharrow, David J., Jessica Godwin, Yanjun He, SAM CLARK, and Adrian Raftery. 2017. *Probabilistic Population Projections for Countries With Generalized HIV/AIDS Epidemics*. Presentation by Godwin, Jessica at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Chicago: April 2017.
- CLARK, SAMUEL J. 2016. *HIV Mortality Trends in Africa in the Treatment Era: New Evidence from the ALPHA Network of Community-based HIV Surveillance Studies – Verbal Autopsy: ALPHA Network Contributions*. Conference Presentation by CLARK, SAMUEL J. at *21st International AIDS Conference (AIDS 2016)*. Durban, South Africa: July 2016.

- CLARK, SAMUEL J. 2016. *Statistical Demography: Innovative Approaches to Life Expectancy and Mortality*. Session Discussion by CLARK, SAMUEL J. at *Annual Meeting of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.
- Houle, Brian, Athena Pantazis, Chodziwadziwa Kabudula, Stephen Tollman, and SAMUEL J. CLARK. 2016. *Social Patterns and Differentials in the Fertility Transition Based on Population Surveillance: Rural South Africa, 1993 – 2013*. Presentation by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.
- McCormick, Tyler, Li Zehang, Clara Calvert, Amelia Crampin, Kathleen Kahn, and SAMUEL J. CLARK. 2016. *Probabilistic Cause-of-death Assignment using Verbal Autopsies*. Poster presented by McCormick, Tyler at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). Washington, D.C.: March–April 2016.
- CLARK, SAMUEL J., F. Xavier Gómez-Olivé, Brian Houle, Margaret Thorogood, Kerstin Klipstein-Grobusch, Chodziwadziwa Kabudula, Jill Williams, Jane Menken, and Stephen Tollman. 2015. *Cardiometabolic Disease Risk and HIV Status in Rural South Africa: Establishing a Baseline*. Conference Poster by CLARK, SAMUEL J. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.
- CLARK, SAMUEL J., Jon Wakefield, Tyler McCormick, and Michelle Ross. 2015. *Hyak Mortality Monitoring System: Innovative Sampling and Estimation Methods*. Conference Presentation by CLARK, SAMUEL J. at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.
- Houle, Brian, SAMUEL J. CLARK, Kathleen Kahn, Stephen M. Tollman, and Alicia Ely Yemin. 2015. *The Impact of Maternal Mortality on Children's Risk of Dying in Rural South Africa: Evidence from a Population-Based Surveillance Study (1992-2013)*. Conference Presentation by Houle, Brian at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.
- Pantazis, Athena, and SAMUEL J. CLARK. 2015. *Modeling Age-Specific Fertility Curves to Understand Demographic Transition*. Conference Presentation by Pantazis, Athena at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.
- Sennott, Christie, Benn Sartorius, Jane Menken, SAMUEL J. CLARK, Nicole Angotti, Kerstin Klipstein-Grobusch, and Stephen Tollman. 2015. *Births and HIV Status in Agincourt, Rural South Africa, 2010*. Conference Poster by Sennott, Christie at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.
- Sharrow, David, Yanjun He, SAMUEL J. CLARK, and Adrian E. Raftery. 2015. *Probabilistic Projections of Mortality in Countries with Generalized HIV Epidemics for Use in Total Population Projection*. Conference Presentation by Sharrow, David at *The Annual Meetings of the Population Association of America*. Sponsored by Population Association of America (PAA). San Diego: May 2015.

Students

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

Ph.D.

- 2020– : Yue Chu (Sociology): **committee chair**
- 2019 – : Eungang (Peter) Choi (Sociology): **committee chair**
- 2017: ★ External Examiner for Chao Fengqing, PhD in Public Health, National University of Singapore
- 2015 – 2018: ★ Zehang (Richard) Li (Statistics): committee member
- 2014 – 2021: ★ Jonathan Muir (Sociology): **committee chair**
- 2013 – : ⊙ William Brown (Anthropology): graduate school representative
- 2012 – 2016: ★ Athena Pantazis (Sociology): **committee chair**
- 2012 – : ⊙ Benjamin Hanowell (Anthropology): committee member
- 2010 – 2015: ★ Cara Margherio (Sociology): **committee chair**
- 2010 – 2011: ★ Brian Houle (Sociology): **committee chair**
- 2010: ★ External Examiner for Charles Kimpolo, PhD in Computational and Applied Mathematics, University of the Witwatersrand
- 2010 – 2017: ★ Chodziwadziwa Kabudula (School of Public Health, University of the Witwatersrand, Johannesburg, South Africa): acting **committee chair**
- 2009 – 2012: ★ Romesh Silva (Demography, UC Berkeley): committee member
- 2009 – 2011: ★ Ting Li (Quantitative Ecology and Resource Management): committee member
- 2009 – 2011: ★ Le Bao (Statistics): committee member
- 2008 – 2013: ★ Mark Wheldon (Statistics): committee member
- 2008 – 2011: ⊙ Greg Matthews (Sociology): **committee chair**
- 2008 – 2013: ★ David Sharrow (Sociology): **committee chair**
- 2007 – : ⊙ Eric Gleave (Sociology): committee member
- 2007 – 2013: ★ Devon Hamilton (Sociology): committee member
- 2006 – 2009: ★ Jason Thomas (Sociology): **committee chair**
- 2005 – 2008: ★ Leontine Alkema (Statistics): committee member

Masters

- 2019 – 2020 : ★ Yue Chu (Sociology): **committee chair**
- 2018 – 2019: ★ Eungang (Peter) Choi: **committee chair**
- 2019: ★ Chenyao Zhang: committee member
- 2012 – 2014: ★ Janjun He (Statistics): committee member
- 2011 – 2012: ★ Athena Pantazis (Sociology): **committee chair**
- 2010: ★ External Examiner for William Msemburi, Masters of Philosophy in Demography, University of Cape Town
- 2010 – 2010: ★ Ryoko Takahashi (Department of Health Services, School of Public Health): committee member
- 2009 – 2010: ★ Jennifer Chunn (Statistics): committee member
- 2007 – 2009: ★ Kerry MacQuarrie (Sociology): **committee chair**

- 2007 – 2009: ★ Cara Margherio (Sociology): **committee chair**
2007 – 2009: ★ Jongjit Rittirong (Sociology): **committee chair**
2007 – 2008: ★ Jodi Kurtz (Sociology): committee member

Research & Professional Interests

I am a formal demographer, epidemiologist, and data scientist who works on the demography and epidemiology of Africa and developing new methods for population sciences. Recently I have been working on:

- Improving the verbal autopsy method used to quantify the burden of disease for populations without full coverage vital statistics systems – work with colleagues at The Ohio State University, the University of Washington, the London School of Hygiene and Tropical Medicine, the CDC, the Swiss Tropical and Public Health Institute, the WHO, and the 'Data for Health' Initiative.
- Developing/improving methods to assess the population impact of the COVID-19 pandemic – excess deaths, prevalence, and methods to assess SARS-CoV-2 involvement in causing death, e.g. verbal autopsy for COVID-19 – with colleagues from The Ohio State University, the University of Washington, and the University of California, Santa Cruz.
- Developing a new model of age-specific mortality in close collaboration with the United Nations Population Division Estimates and Projections section – with colleagues from the UNPD, Australia National University, and The Ohio State University.
- Mapping child mortality at the subnational level through time using household survey data in countries without full coverage vital statistics systems – work with colleagues at the University of Washington and UNICEF.
- Developing new population indicator measurement strategies and statistical methods to implement them – work with colleagues at the University of Washington.
- Fertility and mortality: a variety of projects investigating levels and trends in fertility and mortality, mostly in Africa, and sometimes building models of age schedules of fertility and mortality that can be used widely as inputs to other analyses.

Recent Teaching & Instruction

- 2022: Sociology 8802: Institute for Population Research (IPR) *Demography Proseminar*
2021: Sociology 7753: Introduction to Demographic Analysis
2020: Sociology 5450: Surviving in South Africa: Contemporary Health and Population Issues
2019: Sociology 8802: Institute for Population Research (IPR) *Demography Proseminar*
2018: Sociology 7753: Introduction to Demographic Analysis
2017: Sociology 7753: Introduction to Demographic Analysis
2017: (twice) Sociology 5450: Surviving in South Africa: Contemporary Health and Population Issues
2016: Sociology 5450: Surviving in South Africa: Contemporary Health and Population Issues

Curriculum Vitae – Samuel J. Clark

- 2014: Sociology Study Abroad, Summer B, Agincourt Health and Demographic Surveillance System Site, Acornhoek, South Africa: Measuring and Understanding Health and Population in South Africa
- 2014 – 2016: Sociology 201: Surviving in South Africa: Contemporary Health and Population Issues
- 2010 – 2012: Sociology/CSSS/Statistics 221: Statistical Concepts and Methods for the Social Sciences. A course joint listed by Sociology, CSSS and Statistics that presents an introduction to statistical concepts and methods for social scientists
- 2005 – 2016: Sociology 433/533: Introduction to Demographic Methods. A course taught in the Sociology Department at the University of Washington that presents an introduction to core demographic methods and techniques
- 2005 – 2009: Sociology 220: Introduction to Sociological Methods. A course taught in the Sociology Department at the University of Washington that presents an introduction to experimental design and statistical methods for undergraduates majoring in Sociology
- 2005 – 2007: During summer: Three one-week modules covering the theory and practice of data management in the context of Demographic Surveillance Systems. These modules form the Data Management component of the INDEPTH Network-sponsored M.Sc. degree program at the School of Public Health, University of the Witwatersrand, South Africa
- 2006 – 2007: Sociology 401: Population and Africa. A course taught in the Sociology Department at the University of Washington that presents historical and contemporary topics concerning population in Africa, with an emphasis on the current impacts of HIV/AIDS on African populations
- 2007: CSDE 555: Health Metrics. A course taught through the Center for Studies in Demography and Ecology at the University of Washington introducing the basic methods of Health Metrics