

Boladé Hamed Banounin

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SUMMARY

UKRI GCRF Accelerate Hub Postdoctoral research fellow in quantitative methods at the Centre for Social Science Research, University of Cape Town. Statistical researcher with expertise in data processing, cleaning, analysis, interpretation, and dissemination for large-scale surveys (e.g., Demographic and Health Survey, Multiple Indicator Cluster Survey) and censuses. Developing expertise on advanced statistical methods and machine learning

EDUCATION

PhD in Reproductive Health (80%), Distinction	2016-2019
University of Ibadan	<i>Ibadan, Nigeria</i>

- Scholarship: African Union Commission Fellowship (36 months)
- Alumnus of the 2018-19 Population Reference Bureau (PRB) Policy Communication Fellows Program

Master of Science in Demography (74%), Distinction	2010-2012
Regional institute for population studies (IFORD)	<i>Yaoundé, Cameroon</i>

- Relevant coursework: Longitudinal data analysis, Sampling, Impact evaluation, Sociology
- Scholarship: Benin Government scholarship (24 months)
- Prize: Cheikh Mbacke Prize for best Master's dissertation in Demography

Master in Economics	2009-2010
University of Abomey-Calavi	<i>Abomey-Calavi, Benin</i>

- Relevant coursework: Econometrics, Data analytics, Political economy, Behavioural economics, Economic evaluation
- Scholarship: Benin Government Excellence scholarship (18 months)

Bachelor of Science in Economics	2006-2009
University of Abomey-Calavi	<i>Abomey-Calavi, Benin</i>

- Relevant coursework: Econometrics, Data analytics, Political economy, Behavioural economics, Game theory, poverty analysis
- Scholarship: Benin Government Excellence scholarship (36 months)

PEER-REVIEWED ARTICLES

Hertzog, L., **Banounin, B. H.**, Stöckl, H., & Toska, E. (2022). Accelerating ontological security for South African adolescents living in high HIV-prevalence areas: A longitudinal study. *Psychology, Health & Medicine*, 0(0), 1–22. <https://doi.org/10.1080/13548506.2022.2108079>

Banounin, B. H., Obasanjo, B. (2022). Contraception in Africa. In *The Routledge Handbook of African Demography*. Taylor and Francis - Routledge. <http://dx.doi.org/10.4324/9780429287213-16>

Banounin, B. H., Somefun, O. D., Olakunle, A. A. 2021. Migration and interbirth transition rate using Benin Demographic and Health Survey data: Does episode-splitting matter? *PLoS ONE* 16(10): e0258297. <https://doi.org/10.1371/journal.pone.0258297>

Akuze, J., Annerstedt, K.S., Benova, L. et al. 2021. Action leveraging evidence to reduce perinatal mortality and morbidity (ALERT): study protocol for a stepped-wedge cluster-randomised trial in

- Benin, Malawi, Tanzania and Uganda. BMC Health Serv Res 21, 1324. completion, internal efficiency, development and skills, and cross-sectoral indicators. <https://doi.org/10.1186/s12913-021-07155-z>
- Banounin, B. H.**, Toska, E., Shenderovich, Y., Zhou, S. 2021. Sexual practices among adolescents and young people in Eastern Cape, South Africa: the association with HIV status and mode of infection. CSSR Working Paper No. 462. doi: 10.13140/RG.2.2.25866.80326
- Banounin, B. H.** 2019. Examining internal migration effects on short versus long interbirth intervals in Cotonou, Benin Republic. BMC Pregnancy and Childbirth, 19:375. doi: <https://doi.org/10.1186/s12884-019-2529-7>
- Olakunle, A. A., **Banounin, B. H.** 2019. Timing between age at first sexual intercourse and age at first use of contraception among adolescents and young adults in Niger: What role do education and place of residence play? Gates Open Research, 3:1463. doi: <https://doi.org/10.12688/gatesopenres.12972.1>
- Banounin, B. H.**, Adekunle, A. O., Oladokun, A., Sanni, M. A. 2018. Impact of internal migration on fertility in Cotonou, Benin Republic. African Population Studies, 32(2, Oct./Nov). doi: [dx.doi.org/10.11564/32-2-1209](https://doi.org/10.11564/32-2-1209)
- Banounin, B. H.**, Adekunle, A. O., Oladokun, A., Sanni, M. A. 2018. Internal migration and unmet need for family planning in Cotonou, Benin Republic. African Population Studies, 32(2). doi: [dx.doi.org/10.11564/32-2-1212](https://doi.org/10.11564/32-2-1212)
- Banounin, B. H.** 2015. Facteurs Explicatifs de la Baisse de la Prévalence des Infections Respiratoires Aigües (IRA) chez les Enfants Agés de Moins de 5 ans en Afrique Sub-Saharienne. Revue d'Epidmiologie et de Santé Publique, 63, S67. doi: <https://doi.org/10.1016/j.respe.2015.03.067>

WORK EXPERIENCE

UKRI Accelerate Postdoctoral Research Fellow	January 2021 – present
University of Cape Town	<i>Cape Town, South Africa</i>
• Planning and conducting quantitative data analyses on adolescents' sexual and reproductive health • Conducting literature reviews on topics related to analyses planned • Supporting data cleaning and data management • Present analyses at seminars, workshops and conferences • Prepare research findings for publication in peer-reviewed journals • Achievements ○ Was awarded NIH K43TW011434 grant in the amount of \$99,575 for HIV research ○ Published one working paper, 1 first-authored paper ○ Contributed to the data management plan template ○ One deep dive presentation on SDG mapping using propensity score analysis (inverse probability weighting and propensity score matching) ○ Co-supervised a Master's student at the University of Oxford ○ Co-supervising a Master's student the University of Cape Town	

Supervisors:

- A/Professor Elona Toska (Department of Sociology, University of Cape Town); Research Associate (Department of Social Policy & Intervention, University of Oxford)
- Professor Lucie Cluver (Department of Social Policy & Intervention, University of Oxford; Department of Psychiatry and Mental Health, University of Cape Town)

Statistical consultant

January 2021 – June 2021

Akena Associates, Abuja, Nigeria

Abuja, Nigeria

- Cleaned population-based survey on family planning in Nigeria
- Analysed adult, maternal, and child mortality and fertility analyses, and shared comprehensive coding materials and reports

Monitoring and Evaluation Specialist

September 2020 – February 2021

Human reproduction and population research centre

Cotonou, Benin

- Led data collection, data management, and data analysis
- Participated in the protocol writing and step-wedge cluster RCT sampling design on child and maternal health in four sub-Saharan African countries (including Benin, Malawi, Tanzania, and Uganda)
- Produced monthly timesheets for 4 different projects
- Supervised 8 employees through training, weekly meetings, and supports
- Cleaned and analysed data from 2 surveys
- Defended 4 research proposals before the National institute of statistics

Statistical Consultant (remotely)

June 2020 – December 2020

Accelerate Hub, University of Cape Town & University of Oxford

Remotely

- Updated systematic review on sexual and reproductive (SRH) outcomes among adolescents and young people living with HIV in sub-Saharan Africa
- Analysed HIV risk behaviours among adolescents in the Mzantsi Wakho study based on 3 waves data
- Made available syntax files of data screening, data cleaning and data analysis
- Contributed to the write up of working paper and paper for publication

Statistical Consultant

October 2019 – August 2020

National institute for statistics and economic analysis (INSAE)

Cotonou, Benin

- Conceptualized research problems and analytic solutions
- Contributed to the write up of 3 working papers from the 2017-2018 Benin Demographic and Health Survey
- Contributed to the development and evaluation of data collection tools for the 2020 Benin migration survey

PhD research project

April 2016-June 2019

University of Ibadan

Ibadan, Nigeria

Title: Patterns of Migrants' Fertility Behaviours in Cotonou, Benin Republic (Grade: Excellent— 80%)

- Developed electronic data collection application generating savings in costs (~70%) and time (~40%) compared to paper-based data collection
- Designed and implemented data quality evaluation tools by coding a program in STATA to produce 10 field check tables on a weekly basis
- Led data collection and cleaned data from 1,913 household surveys and 1,949 female surveys with more than 97% response rate
- Conducted data analysis, produced user-friendly interpretations and discussions, and made available 8 (R, STATA, and SPSS) syntax files with easy-to-understand comments
- Managed annual budget of \$21,000
- Published in peer-reviewed journals and/or presented at international conferences over 5 papers
- Gave 4 talks to a group of 30 graduate students in statistics on data-driven policy impact evaluation

- Gave 1 talk to a group of 30 graduate students in demography on data security

Quantitative data analyst

October 2012-March 2016

National institute for statistics and economic studies (INSAE)

Cotonou, Benin

- Led mortality, migration, and cash transfer data analysis from the 2013 Benin population and housing census and reviewed the final draft of completed analysis including coding, inconsistencies and quality checks
- Participated in the data cleaning and the drafting of reports from several surveys (e.g., the 2014 Multiple Indicator Cluster Survey) and the 2013 Benin population and housing census
- Led the design and implementation of the monitoring and evaluation (M&E) activities of 2 major projects on women empowerment and nutrition in 2013
- Conducted 4 workshops and built capacity of 15 stakeholders in data collection and management
- Recruited, scheduled, and ran hundreds of participants in multiple studies including one on population dynamics, health and environmental changes in Northern Benin
- Conducted impact evaluation of the effect of microloans to women on school drop-out among ~4,000 girls in rural areas in Benin
- Organized materials, coordinated 3 studies at the same time and still met tight deadlines
- Trained, supervised, and tracked the progress and quality of work done by more than 400 enumerators, assuring the accuracy and completeness of data
- Conducted a fieldwork in 20 enumeration areas in Northern Benin including Focus Group Discussions (FGDs), transcribing and coding

LEADERSHIP EXPERIENCE

Teaching experience

June 2014-July 2020

The Graduate school of statistics and Demography (ENSPD)

Parakou, Benin

- Taught 5 core courses for the graduate program ranging in size from 30-80 students. Topics included: Introduction to econometrics, Social statistics analysis, Mortality and morbidity analysis, Data analysis with STATA, SPSS and R
- Designed course materials and graded over 60 problem sets and exams
- Led weekly laboratory and/or problem-solving and discussion sections for groups of 10-20 students
- Advised 60 students on course material, research design, and extracurricular opportunities
- Achieved the highest overall student approval rating (94%)

Population research centre

Abomey-Calavi, Benin

- Taught 3 core course to BSc and MSc students in demography ranging in size from 30-50 students. Topics included: Applied mathematical demography, Econometric evaluation of socio-economic programs, data management
- Examined 2 BSc dissertations and supervising 3 MSc dissertations

Reviewer

February 2018-present

- **International Journal of Public Health (IJPH):** reviewed 4 articles and was in the top 25 of review ranking in 2019
- **BMC Reproductive Health:** reviewed 2 articles in 2021
- **PLOS ONE:** review 1 article in 2021

SKILLS

- Strong analytical skills: econometrics (with STATA and R), data collection (with ODK and CSPro)

- Qualitative analysis with Nvivo and RQDA package in R (advanced)
- Microsoft Office Suit (advanced), LaTeX (intermediate)
- Proficient in research design and data-driven policy impact evaluation
- Language: French (fluent), English (fluent), Spanish (intermediate)

SELECTED CONFERENCE PRESENTATIONS

- “Levels and determinants of regional disparities in neonatal and child mortality in Benin.” **29th International Population Conference**, 5-10 December 2021, Hyderabad, India. Spatial and Socioeconomic Determinants of Child Health (oral) session.
- “Mobile phone use and HIV risk behaviours among adolescents in South Africa: associations and possible mediators.” **21st International Conference on AIDS and STIs in Africa (ICASA 2021)**, 6-11 December 2021, Durban, South Africa. Social epidemiology of HIV/Epidemiology of HIV co-morbidity and emerging diseases/HIV/AIDS prevention programmes (oral) session.
- “Resumed fertility decline in Sub-Saharan Africa: what does happen after a stalling point?” **2020 Population Association of America (PAA) annual meeting**, 22-25 April 2020, Washington Marriott Wardman Park, Washington, DC, USA, Recent trends in fertility and contraceptive (oral) session
- “Resumed fertility decline in Sub-Saharan Africa: what does happen after a stalling point?” **Eighth African Population Conference (APC)**, 18-22 November 2019, Entebbe, Uganda. (Oral) Session: Fertility patterns that deviate from conventional theories II
- “Migrant Women’s Use of Modern Contraception in Cotonou, Benin Republic”, **2019 Population Association of America (PAA) annual meeting**, 10-13 April 2019, Austin, TX, USA., Contraceptive in Context (oral) Session
- “Timing Between Age at First Sexual Intercourse and Age at First Use of Contraception Among Adolescents and Young Adults in Niger: What Role Do Education and Place of Residence Play?”, 12-15 November 2018, **2018 International Conference on Family Planning (ICFP)**, 12-15 November 2018, Kigali, Rwanda. (Poster) Track: Sexual and reproductive health and rights among adolescents and youth
- “Impact of Internal Migration on Fertility in Urban Areas of Benin Republic”, **28th International Population Conference (IPC)**, 29 October – 3 November 2017, Cape Town, South Africa. Fertility transition in Africa (oral) session
- “Impact of Internal Migration on Unmet Need in Urban Areas of Benin Republic”, **28th IPC**, 29 October – 3 November 2017, Cape Town, South Africa. Sexual and reproductive health (poster) session

SEMINARS, WORKSHOPS, AND SUMMER INSTITUTES

- Summer school in development methodologies organized by J-PAL, Abidjan, Côte d’Ivoire, 4-9 July 2022
- Summer Institute on Computational Social Science, Cape Town, South Africa, 18-29 June 2019
- Summer Institute for the 2018-2019 Population Reference Bureau (PRB) Policy Communication Fellows Program, Lilongwe, Malawi, 17-23 June 2018
- Seminar on Geospatial Demography: Combining Satellite, Survey, Census and Cellphone Data to Provide Small-area Estimates, Cape Town, South Africa, 29 October 2017
- Integrated Public Use Microdata Series (IPUMS) census and survey microdata workshop, Cape Town, South Africa, 26 October 2017
- Seminar on Census Data Dissemination Using Integrated Management Information System (IMIS), IFORD, Yaoundé, Cameroon, 18-19 June 2012