**CURRICULUM VITAE**

**Email:** [**abckris@gmail.com**](mailto:abckris@gmail.com)

[**https://www.researchgate.net/profile/Chris\_Agala**](https://www.researchgate.net/profile/Chris_Agala)

**EDUCATION**

***2012-2017* Ph.D. in Public Health Policy and Management (Health Services Research)**

**Minor: Healthcare Quality and Access**

Gillings School of Global Public Health, UNC Chapel Hill, USA

<http://sph.unc.edu/hpm/health-policy-and-management-home/>

Dissertation: Referral network factors and patient reported health outcomes among HIV-positive women in Ethiopia

Dissertation Committee Chair: Bruce J. Fried, Ph.D.

***2001-2004* Bachelor of Commerce**

**Major: Finance**

Kenyatta University, Nairobi, Kenya

<http://business.ku.ac.ke/index.php/component/content/article?id=101>

***1998-1999* Associate’s Degree**

**Major: Computer Science**

Starehe Technical Training Institute, Nairobi, Kenya

<http://www.stareheboyscentre.ac.ke/sbc/>

**RESEARCH AND WORK EXPERIENCE**

**Postdoctoral Visiting Scholar** – Statistical Analyst and Researcher

08/2018 *- Current*

**University of North Carolina at Chapel Hill School of Medicine Emergency Medicine Department**

* Used billing and claims (including Medicare) data to assess value-based care diagnostic options and Opioid prescribing practices.
* Generated quality improvement statistics using data from data universes connected to EPIC.
* Built statistical models, including economic indicators and patient characteristics as inputs for models.
* Provided data management and analysis under the direction of investigators.
* Managed large complex multi-level research/ patient data (from data universes connected to EPIC and other patient data management software/portals) for use in analytical models using STATA.
* Built and tested econometric/statistical models to evaluate the impact of North Carolina’s STOP ACT on prescription of opioids.
* Conducted statistical analysis on the patient data to evaluate the effect of the STOP Act.
* Conducted literature review and wrote the background section and results, discussion and conclusion sections of manuscripts.
* Prepared results for dissemination at conferences and departmental meetings.
* Extracted data from large national nutritional survey dataset (NHANES), developed survival analysis model and used STATA to conduct data analysis
* Interpreted all statistical outputs from all analytical work and incorporated them in various manuscripts.
* Guided QI research team on appropriate analytical approaches and methods and considerations for various methods, and applied those methods in designing analytic models.

**Independent consultan**t – Statistical Analyst

08/2018 *– 09/2018*

**Palladium International**

* Extracted routine public health and project data from government managed and public data portals.
* Wrote the statistical analysis plan for the project impact evaluation task.
* Conducted data management, including merging large data sets and creating new variables from existing ones.
* Conducted data analysis to assess the effect of the DREAMS project in northern Uganda.
* Co-wrote background, results, discussion, conclusions and implications for practice sections of final report.
* Developed and tested health outcomes models.

**Research Associate – Research Analyst Specialist**

*07/2017 – 07/2018*

UNC Chapel Hill - Carolina Population Center & MEASURE Evaluation, focusing on various global health topics relating to access, quality and cost of healthcare in medium and low-income countries.

* Managed research/evaluation project from large population-based and longitudinal surveys.
* Conducted data analysis using survey methodology.
* Conducted data analysis of data from observational studies and quasi experiments.
* Conducted hypothesis tests, cross-sectional, longitudinal and survey data management.
* Contributed to the design of four health services research evaluation studies.
* Led data analysis for two evaluation and research projects.
* Developed and tested models and applied quantitative econometric methods to conduct analyses on patient-reported health outcomes, disparities in access to and quality of HIV/AIDS treatment, social determinants of population health, evaluation of health and development projects.
* Conducted survey data management (generated new variables, cleaned data) created data dictionaries and codebooks, and used in-line documentation to indicate decision points and decision-makers.
* Developed survey questionnaires.
* Developed data dictionaries for analyzed data sets.
* Participated in study protocol development.
* Programmed and pretested survey questionnaires using Open Data Kit (ODK) and electronic tablets.
* Co-wrote evaluation reports.
* Collaborated with researchers conducting US-based and international research and intervention initiatives at UNC Chapel Hill and in various countries in Africa, Asia and South America.
* Published a manuscript based on one of my dissertation’s research questions.

**Dissertation completion Fellow**

***08/2016 – 05/2017***

UNC Chapel Hill

* Applied for and received UNC Chapel Hill Graduate School’s Dissertation Completion Fellowship.
* Conducted data management activities including generation of new variables and creation of categories for various values of outcome variables.
* Developed statistical models appropriate for the assessment of dissertation’s three research questions.
* Applied structural equation modeling and multiple group confirmatory factor analysis to analyze survey data to assess effects of characteristics of organizations, organizational networks and patients on patient-reported outcomes including satisfaction with care, adherence to medication and quality of life.
* Used principal components analysis to generate a linear estimator for household wealth index (which was incorporated in the analysis model) in place of household income, which was poorly measured and had data more than 40% missing values.
* Interpreted data analysis results for various types of outcomes.
* Wrote dissertation assessing access to and use of antiretroviral therapy and associated health outcomes among HIV-positive women in Ethiopia.
* Presented dissertation in a public forum using PowerPoint slides.

**Pre-doctoral Fellowship and Graduate Research Assistantship**

***01/2016 – 08/2016***

UNC Chapel Hill - Carolina Population Center & MEASURE Evaluation

* Co-authored a paper on organizational network analysis for HIV service providers in Homa Bay Kenya (ONAK), currently in press at the Journal of Public Health Management Practice.
* Co-authored five working papers which were internally published on MEASURE Evaluation and collaborating partner websites: [www.measureevaluation.org/resources/publications](http://www.measureevaluation.org/resources/publications)
* Wrote and distributed a guide for MEASURE Evaluation and Palladium staff for use on complexity-aware evaluations – evaluation methods that can be used in interventions implemented in complex and interconnected systems or settings.
* Performed statistical social network analysis using UCINET, network analysis software, and regression analysis using Stata for ONAK.
* Programmed surveys into electronic tablets for South Africa Impact Evaluation project using the Open Data Kit (ODK) software.
* Conducted five systematic literature reviews of over 10,000 resources. The topics included: the use of mobile tablet devices for eHealth, evaluation methods for complex projects and interventions, the role of men in family planning, health informatics, development of indicators for gender empowerment, integration of HIV treatment services and family planning, and data security, quality, collection, and reporting using mobile devices on District Health Information Software 2 (DHIS2 -- <https://www.dhis2.org/>) and Federal Government’s PEPFAR’s Data for Accountability, Transparency and Impact (DATIM - <https://www.datim.org>). Results of these reviews were used for formulation of project guidelines to improve quality and access to health services in partner-country projects.

***6/2015-8/2015***

Continuation of duties conducted previously as pre-doctoral fellow including:

* Co-Investigator on two studies:
  1. Organizational network analysis study in Kenya (ONAK).
* Managed and coordinated implementation of the study with local Kenyan team.
* Conducted data cleaning and management using Excel, Stata.
* Conducted social network analysis of organizational network data using UCINET and regression analysis using Stata.
* Prepared dissemination slides using MS PowerPoint.
  1. Systematic review on integration of HIV services with family planning in low-income countries.
  + Conducted literature search and collated results with other investigators’ findings.

***6/2014 – 5/2015***

* Co-Investigator on two studies:

1. Systematic review on integration of HIV services with family planning in low-income countries.
   * Conducted literature search and collated results with other investigators’ findings.
2. Organizational network analysis study in Kenya (ONAK)
   * Designed an observational-cross-sectional study of a health services research study.
   * Managed and coordinated implementation of the study with local Kenyan team.
   * Prepared and submitted IRB application for ONAK.
   * Developed study protocol for ONAK.
   * Programmed survey for Android tablet-based data collection using OpenDataKit (ODK)
   * Performed data management and conducted social network analysis using UCINET and regression analyses using Stata.
   * Performed organizational network analysis for ONAK.
   * Analyzed qualitative data by coding themes.

***2015 Summer***

Research Assistant

* Co-Investigator on: organizational network analysis study.
* Co-Investigator on: a systematic review of the literature on family planning integration in low-income countries.
* Review of the literature, inter-rating of article coding, writing of manuscript.
  + Continuation of duties conducted previously as pre-doctoral fellow.

***2014 – 2015***

Investigator on “Organizational network analysis for HIV/AIDS treatment study.”

* Analyzed organizational referral network data using UCINET.
* Wrote study protocol for HIV referral network study in Homa Bay, Kenya.
* Designed, pre-tested and field tested referral network data collection questionnaire in Kenya.
* Developed training material for data collection teams for use in Homa Bay, Kenya.
* Provided remote online feedback for data quality control and checks with field teams based in Kenya.
* Designed HIV referral network study and implementation.
* Coordinated of US-based and field (Homa Bay and Nairobi) study activities.

***2013 Summer***

Principal Investigator for a small qualitative survey supplement to a randomized control trial that was assessing the effectiveness of lay counselors as professionals of cognitive behavioral therapy (CBT) intervention at Tanzania Women Research Foundation: Assessment Self-Efficacy of Counselors Study.

* Conducted qualitative interviews with counselors to assess their self-efficacy in delivering CBT to children with trauma and their caregivers through the support of the UNC’s CV Starr Award.

**TEACHING ASSISTANTSHIPS**

**Gillings School of Global Public Health, UNC Chapel Hill**

*2016 Spring*

HPM 600: Introduction to the U.S. Health System.

* Acted as a resource for research methods and writing research papers.
* Evaluated and graded course materials and exams for 29 students.

The DrPH Program

<http://sph.unc.edu/hpm/hpm-drph/>

* Facilitated the DrPh (doctor of public health) program designed for highly experienced healthcare executives.
* Provided support to students on research methods and writing research papers, evaluated and scored course materials and exams for 5 cohorts of around 50 executive level students and provided program support to 10 faculty members.
* Managed course website on Sakai and Adobe Connect and facilitated online student forums.
* Developed teaching schedules for the program.

*2013 Spring*

HPM 351 - Policy Issues in Health Services Delivery

* Lectured as an invited guest lecturer.
* Served as the primary contact point for all students with questions regarding the material.
* Evaluated and scored course materials and exams for 35 students.

*2012 Fall*

HPM 341 - Information Systems, Technology, and Tools in Health Services Administration

* Taught on “Patient Portals” topic of the curriculum.
* Served as the primary contact point for all students with questions regarding the material.
* Evaluated and scored all course materials and exams for 41 students.
* Managed course website on Sakai to include all aspects of the course from individual assignments through final grade determination.

***2008-2012* Africa Regional Coordinator for the Center for Health Policy & Inequalities Research**

Duke Global Health Institute**,** based in Kilimanjaro Christian Medical Centre (KCMC) and TAWREFF, Moshi, Tanzania: <http://chpir.org/>

* Co-authored three manuscripts
* Managed and coordinated three longitudinal cohort research projects:

1. Positive Outcome for Orphans (POFO) longitudinal cohort/hierarchical research project, (NIMH-funded R01) – started in 2005 and still ongoing:

<http://chpir.org/_homepage-content/research/pofo/>

* + Provided IT support for research team.
  + Oversaw data collection, monitoring and management for 5-country survey of over 3000 participants.
  + Lead research team, and trained team on research ethics with vulnerable populations, research interviewing and methods.
  + Conducted qualitative studies using focus groups, in-depth interviews and key informant interviews.
  + Analyzed qualitative data by coding themes.
  + Organized and co-conducted focus group discussions as supplement-studies in the R01 grant.
  + Submitted IRB application, regulatory and HIPAA compliance documentation
  + Conducted surveys in the 5-country study at two sites, trained interviewers on survey methodology and data collection skills.
  + Took and recorded physical body measurements for head circumference, height and weight of participants.
  + Conducted data quality control, data transfer, data cleaning and data analysis and interpretation with research teams.
  + Provided fundraising advice to TAWREF – the local agency that was collaborating with Duke.

1. Coping with HIV/AIDS in Tanzania (CHAT) longitudinal cohort research project (NIMH-funded R01): <http://chpir.org/_homepage-content/research/chat/>

* Interviewed study participants, supervised data entry, data synchronization, quality control, transfer, cleaning, management and preliminary analysis using Entryware and Stata.
* Abstracted records of medical tests results for HIV and HIV RNA among HIV-positive participants.
* Ensured regulatory compliance at site, provided data collection and management oversight for repeated survey of 1200 participants electronically using personal data assistants (PDAs).
* Managed and provided oversight of research team.
* Trained research team on research methods, interviewing and data collection skills and ethics with vulnerable populations.
* Submitted local IRB applications and ensured continuous regulatory and HIPAA compliance.
* Interpreted results and co-wrote methodology sections for publications from study data.

1. Cognitive Behavioral Therapy pilot project for orphaned children and their caregivers in Tanzania – a two-year project.

<http://chpir.org/improving-outcomes/>

* Had responsibility for all study activities.
* Conducted interviews with counselors in Tanzania and Kenya project sites.
* Had oversight of research team, and trained them on research ethics with vulnerable populations, research interviewing and methods.
* Communicated and coordinated study activities with investigators in the parent study at Duke University.
* Project planning and management of longitudinal cohort research activities.
* Oversaw of data security and transfer.
* Submitted local IRB applications and ensured continuous regulatory and HIPAA compliance.

***2007-2008* Head of Department, Research & Monitoring and Evaluation**

Action in the Community Environment (ACE) Africa, Bungoma, Kenya: <http://www.ace-africa.org/>

* Lead the department of research, monitoring and evaluation composed of six staff and two volunteers.
* Designed and created an electronic monitoring and evaluation system for reporting activity targets and achievements to stakeholders.
* Supervised survey data entry, data quality control, data management for baseline, midline and endline data, which were used for public health intervention/service quality improvement.
* Completed community baseline needs assessments for before service provision, and for continuous quality improvement and intervention evaluation.
* Co-wrote a successfully funded proposal to USAID for HIV/AIDS testing and care projects along the northern transport corridor.

***2005-2008* Lead Research Interviewer**

Action in the Community Environment (ACE) Africa, Bungoma, Kenya: <http://www.ace-africa.org/>

Positive Outcomes for Orphans (POFO; NIMH-funded R01)

* Managed the research project at the local Bungoma site.
* Conducted interviews with research participants.
* Supervised survey data entry, data quality control, data management.
* Trained research team on research ethics with vulnerable populations, research interviewing and methods.
* Submitted local IRBs and ensured continued regulatory compliance.

***2005* Technical Coordinator (Advisor)**

Kenya AIDS Watch Institute, Nairobi, Kenya

* Provided:
  + Technical program advice.
  + Organizational needs assessments for monitoring and evaluation strengthening, data management.
  + Developed and presented HIV/AIDS interventions progress updates and at seminars and workshops.
* Developed monitoring and evaluation strategies for Global Fund HIV/AIDS projects, which were assigned to our organization to ensure everyone was on target.
* Fundraising and proposal writing: successful proposal to-level Global Fund to Fight HIV/AIDS, TB and Malaria.
* Trained intervention teams on data monitoring and evaluation.

***2004-2005* Project/IT Coordinator**

International Community for the Relief of Starvation and Suffering, Nairobi, Kenya

* Managed HIV/AIDS intervention project of over 40 staff and volunteers in western Kenya.
* Conducted patient needs assessments for HIV/AIDS patients and orphans,
* Designed research surveys and programmed the surveys using EpiInfo.
* Developed presentations, workshops and seminar training materials, which were used for dissemination of research findings and progress of intervention services.
* Co-wrote grant proposal: successful proposals to country-level Global Fund to Fight HIV/AIDS, TB and Malaria, European Union to fund water and sanitation projects, Community REACH-PACT funds for HIV/AIDS care, Elton John AIDS Foundation, Elizabeth Taylor AIDS Foundation.
* Monitored and evaluated HIV/AIDS services projects in western Kenya.
* Installed and maintained computer software and hardware.

***1998 -2004* Intern and Part-time Summer Research Assistant**

International Community for the Relief of Starvation and Suffering, Nairobi, Kenya

* Co-authored one manuscript.
* Designed survey and programmed the surveys using EpiInfo.
* Entered research study data into EpiInfo for use by partners in publications.
* Conducted preliminary data analysis on research study data, which were presented for advanced analysis by senior researchers.
* Conducted house-to-house patient needs assessments for HIV/AIDS patients.
* Conducted house-to-house census of orphans and vulnerable children in households where parents had tested positive for HIV/AIDS for use in intervention design and service provision.
* Installed and maintained computer software and hardware.

***1995-1996* High School Volunteer – Clerical Officer at three sites**

1. Ahero County Hospital, Kisumu County, Kenya
2. Kenya Bus Service, and
3. The Attorney General’s Office, Nairobi, Kenya

* Duties at the three sites included:
  + Received and registered patients, received questions from the public, conducted patient navigator duties, issued patient ID cards, received and recorded co-payments, filing and file search, issued certificates and cleaned offices at the Office of Registrar of Births and Deaths and the Office of Registrar of Companies and Societies.

**BIBLIOGRAPHY**

**PUBLICATIONS**

1. Thomas, JC.; **Agala, CB**; Xiong, K; Powell, Richard. Improving Referrals for HIV Care Through Organizational Network Analysis. Journal of Public Health Management and Practice, August 31, 2018. DOI: 10.1097/PHH.0000000000000839. <https://journals.lww.com/jphmp/Abstract/publishahead/Improving_Referrals_for_HIV_Care_Through.99447.aspx>
2. **Agala**, **CB,** Thomas, JC, Fried, BJ, Lich, KH, Morrissey, J, Zimmer, C, Whetten, K, Reynolds, HW; Organizational network strengthening effects on antiretroviral therapy initiation and adherence, *Translational Behavioral Medicine*, Volume 8, Issue 4, 17 July 2018, Pages 585–597, <https://doi.org/10.1093/tbm/ibx058>
3. Reddy, Elizabeth A., **Agala, CB.**, Maro, Venance P., Ostermann, J., Pence, Brian W., Itemba, DK., Safely, D., Yao, J., Thielman, Nathan M., Whetten, K. Test site predicts HIV care linkage and antiretroviral therapy initiation: a prospective 3.5 year cohort study of HIV-positive testers in northern Tanzania. BMC Infectious Diseases. 16:497. doi: 10.1186/s12879-016-1804-8​. PMID: 27646635. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5028933/>
4. Whetten K, Shirey K, Pence BW, Yao J, Thielman N, Whetten R, Adams J, **Agala CB**, Ostermann J, O’Donnell K, Hobbie A, Maro V, Itemba D, Reddy E, The CHAT Research Team. “Trauma History and Depression Predict Incomplete Adherence to Antiretroviral Therapies in a Low Income Country.” PLoS ONE 8(10): e74771. doi:10.1371/journal.pone.0074771. PMID: 24124455. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3790775/>
5. Pence, BW., Shirey, K., Whetten, K., **Agala, CB**., Itemba, D., Adams, J.,Whetten, R., Yao, J., Shao, J. Prevalence of Psychological Trauma and Association with Current Health and Functioning in a Sample of HIV infected and HIV-uninfected Tanzanian Adults. PLoS ONE: Trauma and Health-Related Functioning in HIV PLoS ONE. 2012 Vol. 7: e36304. PMID: 22606252. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3351441/>
6. [Elmore-Meegan, M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Elmore-Meegan%20M%5BAuthor%5D&cauthor=true&cauthor_uid=15242210), [Conroy, RM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Conroy%20RM%5BAuthor%5D&cauthor=true&cauthor_uid=15242210), [**Agala, CB**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Agala%20CB%5BAuthor%5D&cauthor=true&cauthor_uid=15242210)**.** Sex workers in Kenya, numbers of clients and associated risks: an exploratory survey. [Reprod Health Matters.](http://www.ncbi.nlm.nih.gov/pubmed/15242210) 2004 May; 12(23):50-7. PMID:15242210. <https://www.sciencedirect.com/science/article/pii/S0968808004231251>

**UNDER REVIEW**

1. **Agala, CB;** Fried, BJ; Zimmer, C; Reynolds, HW; Thomas, JC; Morrissey, J; Whetten, K; Hassmiller, KL. Measurement invariance of HIV treatment adherence scale among HIV positive women in Ethiopia. *Submitted to BMC Public Health*.
2. Ostermann J, K Whetten, R Whetten, **CB Agala**, A Hobbie, N Thielman and The POFO Research Team. Is Support for Orphans Targeted toward Those in Need and Does Support Matter?
3. Daudet Ilunga Tshiswaka, **Chris B. Agala**, AJ Guillory, Justice Mbizo. Age at diagnosis of diabetes and anthropometric indexes in the United States. Submitted to *BMJ Open*.
4. Male Engagement in Family Planning: Gaps in Monitoring and Evaluation. Bridgit Adamou, Brittany S. Iskarpatyoti, **Chris B. Agala**, and Carolina Mejia. Submitted to *Reproductive Health.*

**UNDER REVISION FOR (RE)SUBMISSION**

1. The Effect of State Legislation on Emergency Department Opioid Prescribing: Evaluation of the North Carolina STOP-Act

**Chris B. Agala**, PhD; Erika M. Agala; Warren M. Perry, MD.

1. **Agala, CB**; Fried, BJ; Zimmer, C; Reynolds, HW; Thomas, JC; Morrissey, J; Whetten, K; Hassmiller, KL. Measurement invariance of quality of life scale among HIV positive women in Ethiopia.
2. Olola O, **Agala CB**, Smith JS. Cervical cancer in Tanzania: what are the numbers, who is affected and where are they?

**IN PREPARATION**

1. Olola O, **Agala CB**. Socio-economic burden of cervical cancer in Northern Tanzania.
2. Shirey K, **Agala CB,** Ostermann J, Whetten K, Gray C. Post-election violence and trauma among children in western Kenya.

**POSTERS**

1. Reddy E, **Agala CB**, Safley D, Itemba D, Temba M, Ntabaye M., Ostermann J, Thielman N, Whetten K. Low Incidence of Virologic Failure and Poor Correlation of Virologic and Immunologic Failure among HIV-infected Tanzanian Adults Receiving ART.
2. Johnson K., **Agala CB.** Subjective Expectations and Adherence to Antiretroviral Treatment: Evidence from Tanzania.
3. Yao J, Reddy, E, **Agala CB**, Pence B, Itemba D, Maro V, Safley D, Thielman, Whetten K. The Loliondo phenomenon: Reduced adherence to antiretroviral therapy following mass visits to “Babu wa Loliondo” in Tanzania. Presented at AIDS 2012 – Washington, D.C., USA.

**ACCEPTED FOR ORAL CONFERENCE PRESENTATIONS**

1. The Effect of State Legislation on Emergency Department Opioid Prescribing: Evaluation of the North Carolina STOP-Act

Chris B. Agala, PhD; Erika M. Agala; Warren M. Perry, MD.

1. Measurement invariance of HIV treatment adherence and Quality of life scales among HIV positive women in Ethiopia. 2017 American Public Health Association Annual APHA Conference, Atlanta, Georgia, USA.
2. Quicker ART initiation through organizational network strengthening. International Network for Social Network Analysis, Tsinghua Center for Social Network Research – 2017 Sunbelt Conference Beijing, China.
3. Visualizing Network Ties. 2017 Data Visualization Showcase and Contest, UNC Health Sciences Library.

**WORKING PAPERS (MEASURE EVALUATION – CAROLINA POPULATION CENTER)**

1. HIV testing and Pregnancy Delay among adolescent girls and young women enrolled in the DREAMS initiative in Northern Uganda. Quantitative report.
2. Impact evaluation of Malawi’s organized network of services for everyone’s (ONSE) health project: <https://www.measureevaluation.org/resources/publications/tre-18-008>
3. Changes in HIV and Non-HIV Service Delivery Outcomes at the Subnational Level Associated with PEPFAR Funding Shifts in Kenya and Uganda: <https://www.measureevaluation.org/resources/publications/gr-18-46>
4. Uses of tablet computers in low- and middle-income countries and recommendations for their application in the South African context.
5. mHealth for health information systems in low- and middle-income countries: challenges and opportunities in data quality, privacy and security.
6. A review of family planning outcomes in integrated health programs and research recommendations: <https://www.measureevaluation.org/resources/publications/wp-17-176?searchterm=wp+17+176>.
7. Referral Network Analysis for Improved HIV Care in Homa Bay County, Kenya: Final Report: Final report: <http://www.cpc.unc.edu/measure/resources/publications/wp-16-159>.
8. Male engagement in family planning: Gaps in monitoring and evaluation. <https://www.measureevaluation.org/resources/publications/tr-17-203/>

**TECHNICAL SKILLS AND SPECIALIZED TRAINING**

**DATA ANALYSIS & ANALYTICS**

STATA, SAS, SPSS, MPlus, R, UCINET for network data analysis and TABLEAU.

**ELECTORNIC SURVEY DESIGN/PROGRAMMING**

Open Data Kit (ODK), Survey Monkey application, Qualtrics, EntryWare, MagPi.

**ORGANIZATIONAL AND SOCIAL NETWORK DATA VISUALIZATION**

UCINET, ARC GIS (ArcMap), Tableau, R.

**SYSTEMATIC REVIEW**

PubMed, Cochrane Review, Google Scholar literature search, RefWorks.

**IT SKILLS**

Microsoft Office Software, WordPress, Access (Database Design), Advanced Excel, Microsoft SQL Server and MySQL.

**METHODS/COMPETENCIES**

* Research methods (observational, non-experimental and experimental design
* Research conceptualization, design, implementation, supervision, dissemination, report and manuscript writing
* Research proposal writing
* Data analysis/statistical modeling using econometric methods (ordinary regression, panel data and non-linear data)
* Structural equation modeling for latent variables
* Confirmatory factor analysis and exploratory factor analysis
* Health care access and quality improvement research
* Work with vulnerable populations
* Social network analysis
* Protocol write-up, IRB Submission/compliance
* Training and management of research teams
* Research intervention design

**AWARDS AND HONORS**

* 2016 UNC Graduate School Dissertation Completion Fellowship.
* 2015 Society of Multivariate Experimental Psychology Underrepresented Student Workshop (Travel Award funded Structural Equation Modeling training).
* 2014 Carolina Population Center - MEASURE Evaluation Pre-Doctoral Fellowship.
* 2013 UNC Center for Global Initiatives Cornelius Vander (CV) Starr Award <http://cgi.unc.edu/c-v-starr-fund/>

**MEMBERSHIPS**

* American Public Health Association <https://apha.org>
* Society of Behavioral Medicine <https://www.sbm.org>
* Volunteer Coordinator for Refugee Health Initiative – a project of UNC School of Medicine’s Student Health Action Coalition or SHAC <https://www.med.unc.edu/shac/services/programs/refugee-health-initiative>

**JOURNAL REVIEWER**

* + - * Translational Behavioral Medicine – a journal of the Society of Behavioral Medicine: <https://academic.oup.com/tbm>
      * BMC Public Health - <https://bmcpublichealth.biomedcentral.com>