
Vincent K. Agboto

Director of Research / Director of Biostatistics / Data Analytics Consultant

Curriculum Vitae

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Areas of Expertise: Experimental Designs, Bayesian Statistics, Bioinformatics, Biostatistics, Cancer Research, Predictive Modeling, Data Mining, Data Analytics, Statistical Consulting, Health Policy, Medical Studies, Clinical Trials, Epidemiological Study Designs, Health Disparities, Health Systems, Global Health, Global Leadership, Operations and Management Sciences, Evaluation and Monitoring of Projects, Survey Designs and Analysis, Research Design, Data Management.

Education

- Certification courses in Health Policy, Robert Wood Johnson Foundation, Meharry Medical College, Tennessee, Nashville, USA, 2012.
- Certification courses in Public Health, Harvard University, Boston, MA, USA, 2009.
- Ph.D., Statistics, School of Statistics, University of Minnesota, Minneapolis, MN, USA, 2006.
M.S., Statistics, School of Statistics, University of Minnesota, Minneapolis, MN, USA, 2005.
- Graduate Work, Applied Mathematics and Economics, University of Lomé, Togo, West Africa, 1996.
- B.S., Mathematics, University of Lomé, Togo, West Africa, 1995.

Technical Qualifications

Dr. Vincent Agboto is currently the president of Stats Solutions Consulting Corporation, a research, statistical and management consulting firm in Saint Paul, Minnesota. In this position, he leads the development and management of federal contracts. He was recently the Director of Research at HealthPartners in Minneapolis, Minnesota. In that position, he led a program of clinical research in the current and future clinical areas supported by the Critical Care Research

Center (CCRC). The CCRC currently supports all clinical research activities for the Emergency Medical Services Department, the Emergency Department, the Neurology department, the Surgical and Medical Intensive Care Units, the Oncology Unit, the Burn Center, the Level I Adult and Pediatric Trauma programs, the Hospital Medicine program and General Surgery department. He was a senior biostatistician at Beaumont Health in Royal Oak, Michigan where he led biostatistical consultation efforts on research projects, research proposals, research articles and as well as teaching of statistical concepts to medical residents and fellows. He was an Assistant Professor and the Director of Biostatistics at Meharry Medical College. He also holds adjunct faculty appointments at the Vanderbilt University Medical Center and Walden University. His current areas of research interests include the development of Bayesian methodologies to design experiments and novel ways to design health disparity and epidemiological studies. He was the lead biostatistician and data analytics consultant on all research projects at Meharry Medical College and was involved in many National Institutes of Health (NIH) and Center of Disease Control (CDC) funded programs, including collaborative health disparity research in cancer, injury prevention, post traumatic disorders, HIV/AIDS, diabetes, women and infants' health with faculty and researchers at Meharry Medical College (TN), the Vanderbilt University Medical Center (TN), the University of Minnesota (MN), Emory University (GA) and the University of Central Florida (FL) among others. He served as a principal investigator and co-investigator on NIH institutional research grants and was the principal investigator of an US Army mobile health contract.

He is involved in community health research projects in the United States, Togo (West Africa) and Kenya (East Africa) and has contributed significantly in capacity building research and teaching activities in global health at the Kwame Nkrumah University of Science and Technology (Ghana), the National University of Benin (Benin), the University of Abidjan-Cocody (Ivory Coast), the University of Lomé (Togo), the University of Nairobi (Kenya) and the University of the Gambia (Gambia). He was a 2010 US Fulbright Scholar in Togo. He serves as a reviewer for many scientific journals. He has made research presentations and conducted workshops in statistics, econometrics, biostatistics and public health during professional meetings or seminars at the John Hopkins University (MD), Harvard University (MA), the MD Anderson Cancer (TX), Washington University (MO), University of Cambridge (UK), The University of Nairobi (Kenya), the University of Abomey-Calavi (Benin), Durban (South Africa), Gaborone (Botswana) and the University of Lomé (Togo) among others.

He was an invited scholar in the area of designs of experiments in health care at the University of Cambridge's Isaac Newton Institute for Mathematical Sciences in the United Kingdom in 2008 and 2011. He is a member of the American Statistical Association, an elected member of the International Statistical Institute, a member of the American Public Health Association and the American Association for Public Opinion Research. He is fluent in English and French. He also writes and speaks Spanish fairly.

He also serves a chair and member on students' master and doctoral committees. He is a statistician with over seventeen years of experience in applied statistical research, teaching

and consulting including five years as the lead statistician in the Statistical Software Consulting Center at the University of Minnesota.

Dr. Agboto has worked as a research scientist at Battelle, a research and development firm in Columbus, Ohio and as a consultant in Minneapolis (MN). His work was profiled in the March 2006 issue of the International Society for Bayesian Analysis bulletin. He has published peer reviewed articles in statistics, cancer research, health sciences and has coauthored technical reports. He is also the author of a book on Bayesian Designs, which is available on Amazon. He has strong programming skills in SAS, SPSS, Splus, Stata, Systat, Minitab, R, Epi Info, Matlab and Mathematica. He also has extensive experience on Linux workstations as well as in the Windows and Mac environments.

Professional Experience

July 2016 – Present: President/Senior Consultant, Stats Solutions Consulting Corporation, Saint Paul, Minnesota.

- Leads the daily operations and functioning of this research, statistical and management consulting firm.
- Leads the development of federal contract proposals.
- Serves as the primary contacts for NIH and CDC program officers.
- Worked on research contracts of federal agencies such as the United States Patent and Trademark Office and the National Institutes of Health.
- Working as a statistical reviewer for scientific journals.

September 2015 – June 2016: Director of Research, HealthPartners, Minneapolis, Minnesota.

- Developed, identified and implemented clinical research projects within the clinical units of the Critical Care Research Center.
- Oversaw implemented clinical trials activities of the Critical Care Research Center.
- Led the translation of findings from research projects into clinical practice.
- Led the development of econometrics and forecasting models for hospitals' billing departments.
- Developed and managed model development strategy for care primary, specialty and emergency rooms care payments.
- Oversaw implementation of claims data research activities within the hospitals.
- Planned and directed publications activities.
- Provided leadership in biostatistical and research study designs consultations to physician scientists.
- Wrote research and training grant proposals on behalf of the Critical Care Research Center.
- Determined department priorities and allocation of department resources.
- Managed the financial performance of all the assigned projects.

- Managed the progress of all of the assigned projects.
- Ensured that timeline of deliverables are met to the satisfaction of clients and sponsors.
- Mentored physicians and medical residents in emergency medicine, neurology, internal medicine, hospital medicine, surgery, emergency medical services and psychiatry in research.
- Provided services to the professional and scientific community, and provides consultation to Regions Hospital unit leaders for clinical research development and project implementation.

November 2014 – September 2015: Senior Biostatistician, Beaumont Health System, Beaumont Research Institute, Royal Oak, Michigan.

- Provided leadership on statistical consultancy on all clinical, epidemiological and behavioral projects to residents, fellows and physician scientists.
- Provided biostatistical feedback during journal clubs.
- Taught research seminars to medical fellows and residents.
- Provided biostatistical support on federal, foundations and pharmaceutical companies funded grants.

November 2007 – October 2014: Assistant Professor/Director of Biostatistics and Bioinformatics, Meharry Medical College, School of Medicine, Nashville, Tennessee.

- Provided biostatistical leadership to the Meharry Medical College through consultation and collaborative research on NIH and CDC funded projects on health disparity in HIV/AIDS, cancer, diabetes and injury prevention.
- Provided statistical consultancy on all clinical, epidemiological and behavioral projects at Meharry Medical College.
- Served as the lead statistician for the Meharry Health Disparities Research Center of Excellence (HDRCE).
- Served as the lead biostatistician for the Meharry Translational Research Center (MeTRC).
- Taught biostatistics, data management and research design courses to medical students, graduate students, medical residents and fellow faculty members.
- Led all the bioinformatics and data management tasks related to research projects at Meharry Medical College.
- Served on research and scientific committees throughout the Meharry Medical College.
- Served as chair and committee members on students' masters and doctoral committees.
- Mentored medical residents in psychiatry, preventive medicine, internal medicine, obstetrics and gynecology in research and grant writing.
- Co-Investigator to community health projects in many cities across the United States.

- Served as a Principal Investigator to community health pilot projects on HIV/AIDS and cancer in Togo (West Africa) with the University of Lomé and nongovernmental organizations.
- Led a research capacity building effort in the School of Sciences at the University of Lomé in Lomé (Togo).
- Led a research capacity building effort in the School of Public Health at the University of Nairobi in Nairobi (Kenya) and the University of the Gambia (Gambia).
- Served as the Principal Investigator to the US Army mCare contract designed to provide mobile health support to wounded veterans of Iraq and Afghanistan.

April 2009 – Present: Adjunct Assistant Professor, Biostatistics department, Vanderbilt University Medical Center, Nashville, Tennessee, USA.

- Serves on research and scientific committees at the Vanderbilt University Medical Center.
- Works on collaborative research grants in cancer research and designs of experiments.

October 2008 – Present: Adjunct Faculty, College of Business and Technology / College of Health Sciences/ College of Education, Walden University Online.

- Serves as chair, committee member and reviewer for doctoral dissertation committees.

September 2013 – May 2016: Adjunct Assistant Professor, Grand Canyon University, Phoenix, Arizona, USA.

- Served as a chair and committee member on doctoral dissertation committees.

November 2013 – July 2014: Adjunct Assistant Professor, School of Continuous Studies, Northwestern University, Chicago, Illinois, USA.

- Taught econometrics courses online in the Master of Science in Predictive Analytics Program.

February 2011 – August 2011: Senior Professional Consultant, Murdy Consultant Group, LLC, Newark, Ohio

- Provided biostatistical expertise and evaluation on the Ohio Department of Health's Remote Evaluation of Acute Ischemic (REACH) Telemedicine Network Project.

January 2008 – April 2008: Adjunct Assistant Professor, Department of Biostatistics, College of Public Health, Ohio State University, Columbus, Ohio.

- Taught monthly biostatistics courses to medical professionals in the College of Public Health at the Ohio State University.

August 2007 – October 2007: Adjunct Assistant Professor, Ohio Dominican University, Columbus, Ohio.

- Taught introductory statistics to undergraduate students and non-traditional students.
- Assisted students with laboratory sessions in applied statistics and the use of statistical software such as Excel, SPSS and the calculator TI-83.

January 2006 – October 2007: Adjunct Assistant Professor, Columbus State Community College, Columbus, Ohio.

- Taught introductory statistics and algebra courses to undergraduate students enrolled in winter, spring, summer and fall 2007.
- Assisted students with laboratory sessions in applied statistics, algebra and the use of statistical software such as Excel, Minitab and the calculator TI-83.

September 2005 – May 2007: Research Scientist, Battelle; Columbus, Ohio.

- Worked on consulting projects for the United States federal government in statistical methodology, public health, environmental health, energy, transportation and bioterrorism.
- Provided experimental design, data management, and statistical analysis support to the Advanced Petroleum-Based Fuels – Diesel Emissions Control (APBF-DEC) program, which is jointly funded by government and industry to investigate advanced fuels and supporting technologies to improve emissions from diesel cycle engines.
- Provided guidance in the selection and use of standard as well as sophisticated statistical techniques on a project involved accessing commodity flow data from different data sources and developing predictive models for forecasting commodity volumes transported by different modes.
- Project manager statistics and data management task for an experimental study to determine the effect of intake valve deposits (IVD) and combustion chamber deposits (CCD) on vehicle exhaust emissions and fuel economy for selected vehicle/engine technologies.
- Battelle was approached by an established commodities trading firm seeking to broaden its collection of trading strategies and methodologies. Dr. Agboto is part of a team of statisticians in charge of developing a model to trade crude oil futures. Two candidate models were developed. The first leveraged a combination of structured (e.g., historical prices, oil inventory estimates) and unstructured (e.g., the relative frequency of bullish and bearish phrases in oil industry journals) data. The second was a price only model that sought to benefit from market micro-corrections. The effort convinced the sponsoring company to develop its own capability to develop and manage such technical models.
- Dr. Agboto was a lead statistician on the statistical components of Battelle's maintenance of this handbook. Dr. Vincent Agboto proposed changes to existing

statistical protocols for analysis of strength properties of metallic materials and provided guidance on integration of statistical protocols with computer software associated with the handbook. Dr. Vincent Agboto was involved in a task of developing an R software routine that would allow engineers to find percentile values for non-central t distributions. Dr. Agboto wrote the R routine that was to be implemented as part of the project.

- Dr. Agboto was a lead statistician in the Office of National Drug Control Policy (ONDCP) Evaluation project that was aimed at evaluating the Drug-Free Communities Support Program (DFC) intended to build community capacity to prevent substance abuse among our nation's youth. Dr. Agboto analyzed the survey data provided to the community organizations and wrote a report to be sent to the ONDCP.
- Co-authored many technical reports.

June 2000-September 2005: Statistical Software Consultant in the Academic and Distributed Computing Services, University of Minnesota; Minneapolis, Minnesota.

- Provided consulting services for statistical software, including SAS and SPSS under Microsoft Windows, Mac OS and Unix.
- Responsible for performing SAS and SPSS programming and consulting.
- Worked on customers' statistical analysis projects in Economics, Environment, Health Sciences, Engineering, Public Policy, Agriculture, Education, Food Science.
- Worked on statistical sections of customers' proposals.
- Developed/taught statistical software short courses and demonstrations, and implementing and analyzing data from web based surveys.
- Worked as the lead statistician in the Statistical Software Consulting group.

September 2003-June 2005: Teaching Assistant, University of Minnesota; Minneapolis, Minnesota, Division of Health Policy and Management, School of Public Health.

- Taught theoretical, applied statistics and research methods course to first year public health PhD students in the Division of Health Research and Policy Administration.
- Tutored and assisted students with coursework and laboratory sessions in statistical analysis and software use.
- Provided specialized sessions in statistics during office hours.

Research Support

R01HL118392-01 (Shotwell)

12/1/2013 – 11/30/2017

NIH

\$1,000,000

Optimal design of challenge-response experiments in cardiac electrophysiology

The goals of this project are to refine, apply and validate optimal experimental design

methodology for the purpose of distinguishing between two competing mechanistic models of a biological system.

Role: Co-Investigator

2P20MD000516-06 (Mouton)

8/1/2009-7/31/2014

NIH/NCMHD

\$1,334,118

Meharry Medical College Health Disparities Research Center of Excellence

The goal of this project is to establish an inter-disciplinary health disparities research enterprise at Meharry Medical College.

Role: Co-investigator

1U54RR026140-01 (Adunyah)

8/1/09-7/31/14

NIH/NCRR

\$25,000,000

Meharry Clinical and Translational Research Center (MeTRC)

The long-term goal of the Meharry Translational Research Center (MeTRC) is to establish a national model for clinical and translational health disparities research. Building on particular strengths of the research enterprise at Meharry, the focus of MeTRC will be on infectious disease, including HIV/AIDS, and women's health. The purpose of this proposal is to transform the capacity and infrastructure for translational research at Meharry and support Meharry faculty working to translate fundamental scientific discoveries into clinical practice, with innovative training programs, support for preliminary data generation, mentorship and collaboration opportunities, resource sharing, and state-of-the-art informatics and bio statistical methods.

Role: Co-investigator

W81XWH-12-C-0268 (Agboto)

10/1/2012-09/30/2014

US Army

\$188,254

The goal of this project was to conduct statistical analysis services for the mCare Cell Phone research project that provides designated Army Medical Department (AMEDD) Regional Medical Commands (RMC) and Community Based Warrior in Transition Units (CBWTU) with secure messaging services directly to the personal cell phones of Warriors-in-Transition. It will allow authorized Army Medical Department personnel to provide appointment reminders, health and wellness tips, unit announcements and questionnaires directly to the soldiers.

Role: Principal Investigator

3 G12 RR003032-25S1 (Townsel)

9/17/2009-9/16/2010

NIH/NCRR

\$500,000

Green Tea Extract: A Non-Surgical Alternative for Treatment of Uterine Fibroids.

The goal of this project is to evaluate the efficacy of EGCG in reducing the size of uterine fibroids as well as assess the safety profile.

Role: Co-Investigator subproject

U54CA091408 (Adunyah)

8/3/2006-7/31/2014

NIH/NCI

\$20,000,000

Meharry Medical College and Vanderbilt Ingram Cancer Center: Partners in Eliminating Cancer Disparities.

The major goal of this project is to strengthen and expand the existing partnership for cancer research between Meharry Medical College (MMC) and the Vanderbilt Ingram Cancer Center (VICC) to enhance the competitive cancer research capability of MMC.

Role: Principal Investigator, Biostatistics Core

MPCMP081013 (Riley)

9/1/2009 – 8/31/2010

DHHS/OMH

\$1,612,633

The Diverse Healthcare Workforce Development Project

The major goal is to increase the number of minority health professionals who contribute to a diverse workforce. The objectives of this component are to identify statistical models for tracking Meharry Medical College alumni and predicting students' outcomes on the USMLE.

Role: Co-Investigator

2 L60 MD003775-02A1 (Agboto)

9/1/2009 – 8/31/2011

NIMHD

\$70,000

Novel approaches to epidemiological study designs using some Bayesian paradigms.

This project is part of the NIH Loan Repayment Programs (LRPs) established by Congress and designed to recruit and retain highly qualified health professionals into biomedical or biobehavioral research careers.

Role: Principal Investigator

Other Skills and Expertise

Computer Programming Languages: Basic, C, Latex, and HTML.

Operating Systems: Windows, Linux, Macintosh.

Statistical Software: SAS, SPSS, Stata, Splus, Systat, Matlab, R, Minitab, JMP, CPro, Epi Info, GIS and Mathematica.

Other Software: Lotus Notes, MS Works, MS Word, MS Excel, MS PowerPoint, MS Access, SQL, Dreamweaver and Photoshop.

Professional Memberships

- 2008 – Present:** Founding Member, Pan African Statistical Society.
2008 – Present: Member, American Statistical Association (ASA).
1999 – Present: Member, Institute For Operations Research and Management Sciences (INFORMS).
2003 – Present: Member, International Union for the Scientific Study of Population (IUSSP).
2004 – Present: American Association for Public Opinion Research (AAPOR).
2004 – Present: Member, American Public Health Association (APHA).
2004 – Present: Elected member, International Statistical Institute (ISI).
2004 – Present: Member, Institute of Mathematical Statistics (IMS).
2008 – Present: Member, International Society for Bayesian Analysis (ISBA).

Honors

- 2005** Elected Member, International Statistical Institute.
2008 Invited Scholar, University of Cambridge, United Kingdom.
2009 Recipient of the National Institutes of Health Loan Repayment Program Grant.
2010 United States Fulbright Scholar, Togo, West Africa.
2010 Keynote Speaker, International Education Week, University of Lomé, Lomé, Togo, West Africa.
2011 Invited Speaker, Designs of Experiments Workshop, University of Cambridge, United Kingdom.
2014 Carnegie Foundation of New York Diaspora Fellow, Kwame Nkrumah University of Science and Technology, Ghana, West Africa.

Teaching Activities

- 2008:** Biostatistics, Master of Public Health Program, College of Public Health, Ohio State University, Columbus, Ohio: Taught a monthly biostatistics course to professional public health students in the winter semester of 2008.
2007 – 2014: Research Design, Master of Science in Public Health, School of Graduate Studies and Research, Meharry Medical College, Nashville, Tennessee: Teaches a weekly research design course to graduate students each fall semester.
2008 – 2014: Data Management, Master of Science in Public Health, School of Graduate Studies and Research, Meharry Medical College, Nashville, Tennessee: Teaches a weekly data management course to graduate students each winter semester.
2008 – 2014: Biostatistics, Master of Science in Clinical Investigation Program, School of Medicine, Meharry Medical College, Nashville, Tennessee: Teaches a biostatistics course three

times a week for a month each fall to Meharry Medical College faculty members enrolled in the Master of Sciences in Clinical Investigation funded by the National Institutes of Health.

Professional Research Activities

2007- Present: Member, Meharry Medical College Clinical Research Center Internal Advisory Board.

2007- Present: Member, Vanderbilt Institute for Clinical and Translational Research (VICTR): Design, Biostatistics and Research Ethics Committee.

2008 - Present: Member, Scientific Review Committee, Meharry Center for Women Health Research (CWHR).

2008 - 2009: Member, Meharry Institutional Animal Care and Use Committee (IACUC).

2008 – 2013: Member, Meharry-Vanderbilt Alliance Data Monitoring Committee (DMC)

2008 - Present: Reviewer, American Journal of Public Health.

2009 – Present: Member, Meharry Translational Research Center Scientific Review Committee.

2011 – 2013: Regional Peer Reviewer, United States Fulbright Scholar Program.

2011 – Present: Statistical Reviewer, Journal of Plastic and Reconstructive Surgery (PRS).

2015 – Present: Reviewer, Journal of Healthcare for the Poor and Underserved.

Peer Reviewed Publications

1. Nowicki S, Izban M, **Agboto V**, Pawelczyk E, Pratap S, Olson G, Nowicki B. Preterm Labor: CD55 in Maternal Blood Leucocytes. American Journal of Reproductive Immunology, 61:360 – 367, 2009.
2. Levine RS, **Agboto V**, Sanderson M, Briggs N, Chakrabarty S, Zoorob R, Hull P. Black:white disparities in US esophageal cancer mortality: Success and a paradox. American Journal of Epidemiology, 2009. 167:sS52
3. **Agboto V**, Nachtsheim C, Li W. Screening designs for model discrimination. Journal of Statistical Planning and Inference, 140:3, 766-780, 2010.
4. Fry-Johnson YW, Levine R, Rowley DL, **Agboto V**, Rust G. United States Black: White Infant Mortality Disparities Are Not Inevitable: Identification of Community Resilience Independent of Socioeconomic Status. Ethnicity and Diseases, 20: S1:131-135, 2010.
5. Levine R, Rust G, Pisu M, **Agboto V**, Baltrus P, Briggs N, Zoorob R, Juarez P, Hull PC, Goldzweig I, Hennekens C. Increased Black-White Disparities in Mortality Following Life-Saving Innovations: A Possible Consequence of United States Federal Laws. American Journal of Public Health, 100:11, 2176-2184, 2010.

6. Levine RS, Sanderson M, Juarez P, **Agboto V**. Assault mortality in male youth Ages 15 to 24 Years and Alcohol-related mortality among male adults ages 25-64 years in U.S. Counties. American Journal of Epidemiology, 171(11):S76, 2010.
7. Levine RS, Kilbourne, B, **Agboto V**. Correlation of infant mortality and multiple causes of death. North American Congress of Epidemiology. American Journal of Epidemiology, 2011. 173 (Suppl): S221.
8. **Agboto V**, Nachtsheim C, Li W. A comparison of three approaches for constructing model robust designs. Journal of Statistical Theory and Practice, 5:1, 1-11, 2011.
9. Koudouvo K., **Agboto V.**, Busia K., Eklou-Gadegbeku K., Sanogo R., Essien K., Karou S.D., KokouK., Ketoh G.K., Aklikokou K., Akpagana K., Glitho I.A., Simpore J., Gbeassor M. Ethnobotanical survey of plants used in malaria mosquito control in Togo. J. Rech. Sci. Univ. Lomé (Togo), 2012, Série A, 14(2): 87-96.
10. Maboudou E, **Agboto V**. Monitoring the Covariance Matrix with Fewer Observations than Variables. Computational Statistics and Data Analysis, S0167-9473(13)00084-4, 2013.
11. Sanderson M, Weriwoh M, Alexander L, Perez A, Peltz G, **Agboto V**, Heather O'Hara, Jones C, Khoder W. Perinatal factors and breast cancer risk among Hispanics. Journal of Epidemiology and Global Health, 3, 89– 94, 2013.
12. Rainelli B Koumangoye RB, Nangami GN, Thompson PD, **Agboto VK**, Ochieng J, Sakwe AM. Reduced annexin A6 expression promotes the degradation of activated epidermal growth factor receptor and sensitizes invasive breast cancer cells to EGFR-targeted tyrosine kinase inhibitors. Molecular Cancer, 2013, 12: 167.
13. Langston M. A, Levine R. S, Kilbourne B. J, Rogers G. L, Kershenbaum A. D, Baktash S. H, Coughlin S. S, Saxton A. M, **Agboto V. K**, Hood D. B, Litchveld M. Y, Oyana T. J, Matthews-Juarez P, Juarez P.D. Scalable Combinatorial Tools for Health Disparities Research. International Journal of Environmental Research and Public Health, 11 (2014) 10419-10443.
14. Juarez P.D, Matthews-Juarez P, Hood D. B, Im W, Levine R. S, Kilbourne B. J, Langston M A, Al-Hamdan M. Z, Crosson W. L, Estes M. G, Estes S, **Agboto V. K**, Robinson P, Wilson S, Litchveld M. Y. The Public Health Exposome: A Population-Based, Exposure Science Approach to Health Disparities. International Journal of Environmental Research and Public Health, 11 (2014) 12866-12895.
15. Chittick P, Koppisetty S, Lombardo L, Vadhavana A, Solanki A, Cumming K, **Agboto V**, Karl C, Band J. Assessing patient and caregiver understanding of and satisfaction with the use of contact isolation. American Journal of Infection Control, 11 (2016) 657-660.
16. Koudouvo K., Essien K, Karou S.D., Eklou-Gadegbeku K, Agbonon A, Etorh A. P., **Agboto V**, Kokou, K, Aklikokou K, Glitho I. A., Sanogo R., Millogo H, Diallo D, Akpagana, K, Simpore, J, Moudachirou, M, Koumaglo, K, de Souza, C, Gbeassor, M. A new valuation method applied ethnobotanical survey of herbal antimalarials Togo. Journal African Traditional Medicine and Pharmacopoeia (In Press).

17. Shotwell MS, Roth B, Kandel SM, Drake K, **Agboto V**, Wikswa J. Extending a cardiac electrophysiology model to represent recovery from anoxia using an optimal design technique. Technometrics (Submitted).
18. Block RM, Barnes F, Supan P, **Agboto V**. Using Student Evaluations to Analyze Teaching Effectiveness in Preclinical Endodontics. Computers and Education (Submitted).
19. **Agboto V**, Bekolo VF, Okwen MP, Danawi H, Mendelsohn A, Afemeku KD, Mutima F. Prevalence and Determinants of Chronic Kidney Disease Among Asymptomatic High Risk Cameroonians. Global Health: Science and Practice (Submitted).
20. **Agboto V**, Mutima F, Anderson P, Afemeku KD, Dunn Michael, Bekolo VF. Psychosocial Variables and the Level of PTSD among Raped Females in Eastern Congo. Global Health: Science and Practice (Submitted).
21. Nobis A, Aguinaga M, **Agboto V**, Kihlberg C, Ding T, Yu-Morales M, Knight A, Minja-Trupin C, Richard-Davis G. A Culturally-Tailored and Literacy-Sensitive Intervention to Improve Knowledge about the Gestational Diabetes in Hispanic Women. The Diabetes Educator (Submitted).
22. **Agboto V**, Ossei M, Nesbeth C, Ding T, Hardeman L, Evans S, Richie WD, Bailey RK. The Youth Risk Behavior Surveillance System: A tool for investigating disparities in HIV testing among U.S. youth with high risk behavior. Journal of Adolescent Health. (Submitted).
23. Levine RS, Kilbourne B, Pisu M, Aliyu M, Zoorob R, Juarez P, Goldzweig I, **Agboto V**, Cain V, Hennekens CH. Private marketing and mortality from alcohol related diseases. Journal of the American Medical Association (Submitted).
24. **Agboto V**, Elliott V, Hogue C. A validity assessment of the Jackson-Hogue-Phillips stress measure among African American women employed in medical settings. American Journal of Public Health (Submitted).
25. **Agboto V**, Setodji C, Levine R. A method for systematic community selection in evaluating public health interventions: The example of breast cancer mortality data. American Journal of Epidemiology. (Submitted).
26. **Agboto V**, Setodji C, Amouzou AJ, Zamba G. Use of principal component analysis and prior household goods information to develop a better wealth index for developing countries. Lancet. (In Progress).
27. **Agboto V**, Setodji C, Levine R. Some challenges in the diffusion of innovation: A methodology for taking into account communities' capabilities. Journal of Econometrics Methods (In Progress).

Books

1. **Agboto, V**, Zhang W, Li W, Dong Y (2005). Instructor's Manual for Applied Linear Regression Models, 5th Edition, by Kutner M, Nachtsheim CJ, Li W and Neter, J.

2. **Agboto V.** Bayesian Approaches to Models Robust and Models Discrimination Designs. Lambert Academic Publishing. ISBN : 978-3-659-66059-7. February 2016. *Available on Amazon.*

Recent Research Presentations

1. **Agboto V**, Nachtsheim C, Li W. A Bayesian Approach to Model Robust Designs. Poster session presented at the *Bayesian Statistics* conference, MD Anderson Cancer Center, Houston, Texas, January 2009.
2. **Agboto V**, Nachtsheim C, Li W. Bayesian Approaches to Model Robust and Model Discrimination Designs. Oral presentation at the *Department of Biostatistics Seminar Series*, Vanderbilt University Medical Center, Nashville, Tennessee, February 2009.
3. **Agboto V**, Levine R, Samaniego V, Juarez P, Zoorob R, Goldzweig I, Horner N, Husaini B, Hull P, Hennekens C. Geographic variation in black-white firearms assault mortality among 15 to 24 years old men in the United States. Poster session presented at the *New England Science Symposium*, Harvard University, Boston, Massachusetts, April 2009.
4. **Agboto V**, Nachtsheim C, Li W. Bayesian Approaches to Model Robust and Model Discrimination Designs. Panel presentation at the *Bayesian Inference in Econometrics and Statistics Workshop*, Washington University, Saint Louis, Missouri, May 2009.
5. Levine R, **Agboto V**, Sanderson M, Briggs N, Chakrabarty S, Zoorob R, Hull P. Black-white disparities in US esophageal cancer mortality: success and a paradox. Poster session presented at the *Society for Epidemiologic Research* annual meeting, Anaheim, California, June 2009.
6. **Agboto V**. A case for participatory community health research HIV and cancer projects in Togo: Need for reliable health data. Oral Presentation at the *School of Sciences Seminar Series*, University of Lomé, Lomé, Togo, West Africa, July 2009.
7. **Agboto V**, Nachtsheim C, Li W. A Bayesian Approach to Models Robust Designs. Panel presentation at the New Researcher Conference, John Hopkins University, Baltimore, Maryland, July 2009.
8. **Agboto V**, Nachtsheim C, Li W. A Bayesian Approaches to Model Robust Design. Panel presentation at the *International Statistical Institute biannual meeting*, Durban, South Africa, August 2009.
9. **Agboto V**, Levine R, Pisu M, Briggs N, Juarez P, Zoorob R, Linn G, Hennekens C. Community Co-factors, Diffusion of Innovation, and Disparities in US HIV Mortality. Panel presentation at the *AIDS Impact 2009 conference*, Gaborone, Botswana, September 2009.
10. **Agboto V**, Nachtsheim C, Li W. Comparison of three approaches for constructing model robust designs. Oral presentation at the *Department of Biostatistics Seminar Series*, Vanderbilt University Medical Center, Nashville, Tennessee, October 2010.

11. **Agboto V**, Setodji C, Levine R. A new method for community selection in health disparities research. Oral Presentation at the *international scientific week of the University of Lomé*, Lomé, Togo, October 2010.
12. **Agboto V**. Designs and Analysis of botanical data. Oral Presentation at the *national conference on medicinal plants at the University of Lomé*, Lomé, Togo, October 2010.
13. **Agboto V**, Setodji C, Levine R. New method for community selection in disparities research. Poster Presentation at the *12th RCMI International Symposium on Health Disparities*, Nashville, Tennessee, December 2010.
14. **Agboto V**, Nachtsheim C, Li W. A comparison of three approaches for constructing robust designs. Poster session presented at the *4th Bayesian Statistics conference*, MD Anderson Cancer Center, Houston, Texas, January 2011.
15. **Agboto V**. Best Practices in Data Management and Power Analysis in Clinical and Epidemiological Studies. Oral Presentation at *the MeTRC seminar*, Meharry Medical College, Nashville, Tennessee, March 2011.
16. **Agboto V**, Nachtsheim C, Li W. A comparison of three approaches for constructing robust designs. Oral Presentation at the *Designed Experiments in Health Care: Methods and Applications* workshop at the Isaac Newton Institute for Mathematical Sciences, University of Cambridge, September 2011.
17. **Agboto V**. Biostatistical Issues in Population Health. Oral Presentation at the Centre for Global Health, Trinity College, Dublin, Ireland, September 2011.
18. **Agboto V**. Increased Black-White Disparities in Mortality Following Life-Saving Innovations: A Possible Consequence of United States Federal Laws. Oral Presentation at the *Mayo Clinic Department of Biostatistics and Bioinformatics*, November 2011.
19. **Agboto V**. Designs of Experiments in Clinical and Biological Studies. Oral Presentation at the *Clinical Research Center at Vanderbilt University Medical Center*, March 2012.
20. **Agboto V**, Setodji C, Levine R. A method for systematic community selection in evaluating public health interventions: The example of screening mammography. Oral Presentation at the *American Public Health Association Annual Meeting, San Francisco*, October 2012.
21. **Agboto V**, Setodji C, Levine R. A method for systematic community selection in evaluating public health interventions: The example of screening mammography. Oral Presentation at the *Vanderbilt University Department of Biostatistics Seminar, Nashville, Tennessee*, February 2013.
22. **Agboto V**, Setodji C, Levine R. A method for systematic community selection in evaluating public health interventions: The example of mortality data. Oral Presentation at *Arbor Research, Ann Arbor, Michigan*, June 2013.
23. **Agboto V**. Screening Designs for Model Discrimination. Oral Presentation at the *University of Texas Medical Branch, Galveston, Texas*, December 2013.
24. **Agboto V**. Bayesian Approaches to Model Robust and Model Discrimination Designs. Oral Presentation at the *University of Tennessee Health Science Center, Memphis, Tennessee*, January 2014.

25. **Agboto V.** Bayesian Approaches to Model Robust and Model Discrimination Designs. Oral Presentation at the *Indiana University, Bloomington, March 2014.*
26. **Agboto V.** Screening Designs for Model Discrimination. Oral Presentation at the *Institute of Health Metrics and Evaluation, University of Washington, Seattle, Washington, November 2014.*
27. **Agboto V.** Public Health Exposome. Oral Presentation at the *HealthPartners Institute, HealthPartners, Minneapolis, Minnesota, June 2015.*
28. **Agboto V.** The Public Health Exposome. Oral Presentation at the *MGH Institute of Health Professions, Boston, Massachusetts, October 2016.*
29. **Agboto V.** Bayesian Approaches to Model Robust and Model Discrimination Designs. Oral Presentation at the *Eli Lilly, Indianapolis, Indiana, November 2016.*
30. **Agboto V.** Public Health Exposome. Oral Presentation at the *Minnesota Department of Health, Saint Paul, Minnesota, February 2017.*

Master Thesis Supervision

- Khensani Marolen, Master of Science in Public Health, Meharry Medical College - Title: Survival and Mortality of Perinatal HIV Patients: Gender and Early Initiation of Medical Care – Role: Committee Chair – Status: Completed - Year: 2009.
- Mirabel Weriwoh, Master of Science in Public Health, Meharry Medical College - Title: Prenatal Exposures and Breast Cancer Risk Among Hispanic Women – Role: Committee Member. Status: Completed - Year: 2011.
- Ana Nobis, Master of Science in Public Health, Meharry Medical College - Title: A Culturally-Tailored Literacy-Sensitive Intervention to Improve Knowledge and Health Outcomes Associated with Gestational Diabetes among Hispanic Women: The CuTLS Intervention – Role: Committee Member - Status: Completed - Year: 2012.
- Vivian Onunkwo, Master of Science in Public Health, Meharry Medical College - Title: Correlates of Work-related burn injuries treated in Emergency Rooms in the United States, 1998-2000, Role: Committee Member – Status: Completed - Year: 2013.

Selected Doctoral Thesis Supervision

- Theresa Hollingsworth Hafen Corry, Ph.D. in Public Health, Walden University – Title: Factors Affecting Retention of Veteran Classroom Teachers: A Q-Method Study – Role: University Research Reviewer – Status: Completed – Year: 2009.
- Brian McKay Allen, Doctorate in Business Administration, Walden University - Title: A Factor Analysis of Noncompliance in the Payment Card Industry – Role: Committee Member – Status: Completed - Year: 2011.

- Kevin Tod Wood, Doctorate in Education, Walden University - Title: Teacher and Parent Perceptions within a Differentiated Instructional Environment - Role: Committee Member – Status: Completed - Year: 2011.
- Thurman E. Webb Jr., Doctorate in Education, Walden University - Title: Heterogeneous Grouping in the Classroom: Effects on the Lower Ability Student – Role: Committee Member – Status: Completed - Year: 2011.
- Lisa Ann Charles Fields, Ph.D. in Public Health, Walden University, Title: A Comparison of Imiquimod Cream and Cryosurgery Treatment of hrHPV Infected Cervical Intraepithelial Cells – Role: University Research Reviewer – Status: Completed – Year: 2011.
- Marcia Thewell-Reid, Ph.D. in Public Health, Walden University – Title: A Comparative Analysis of Current Food Safety Knowledge and Self-reported Food Hygiene Practices of Three Groups of Food Handlers in Jamaica: How Effective is the Mandatory Training? – Role: University Research University – Status: Completed – Year: 2012.
- Shalanda Smith, Ph.D. in Public Health, Walden University – Title: The Association Between Housing and Risk Behaviors Among Homeless and Unstably Housed African American Women Living With HIV/AIDS – Role: University Research Reviewer – Status: Completed – Year: 2012.
- Holly Joy D’Angelo Scott, Ph.D. in Public Health, Walden University – Title: An Investigation of the Impact of a Multidisciplinary, Collaborative Maternity Care Model in Nova Scotia, Canada – Role: University Research Reviewer – Status: Completed – Year: 2012.
- Victor Beauvil, Ph.D. in Public Health, Walden University – Title: HIV/AIDS Knowledge, Attitudes, Condom Use Self-efficacy and Sexual Risk Behavior Among Older Haitian Americans – Role: University Research Reviewer – Status: Completed – Year: 2012.
- Ying Mou, Ph.D. in Public Health, Walden University – Title: Psychosomatic Interactions in Ischemic Heart Disease in Women – Role: University Research Reviewer – Status: Completed – Year: 2012.
- Ayele Eliane Amavigan, Doctorate in Education, Nova Southeastern University - Title: Teacher Absenteeism Factors in Rural Togo and Their Effect on Student Achievement – Role: Committee Chair – Status: Completed - Year: 2013.
- Christine Okpom, Ph.D. in Public Health, Walden University – Title: Knowledge, Attitudes, and Perceptions of Preeclampsia Among First Generation Nigerian Women in the United States – Role: University Research Reviewer – Status: Completed – Year: 2013.
- Eunice Kuminai, Ph.D. in Public Health, Walden University – Title: Variables that Impact Breast Feeding Behavior among HIV Positive Women in Kenya – Role: University Research Reviewer – Status: Completed – Year: 2013.
- Fidele D. Mutima, Ph.D. in Public Health, Walden University – Title: Psychosocial Variables and the Level of PTSD among Raped Females in Eastern Congo – Role: Committee Member – Status: Completed - Year: 2013.

- Alan D. Wirt, Ph.D. in Public Health, Walden University – Title: Adherence to National Comprehensive Cancer Network Treatment Guidelines in a Cohort of Colorectal Cancer Patients, Treated in a Northeast Pennsylvania Section of Appalachia; 2000-2009 – Role: University Research Reviewer – Status: Completed – Year: 2013.
- Arthur Croft, Ph.D. in Public Health, Walden University – Title: Risk Factors Influencing Recovery in Whiplash Trauma – Role: University Research Reviewer – Status: Completed – Year: 2013.
- Jenny Hong Cai, Ph.D. in Public Health, Walden University – Title: Assessment of Factors Associated with Invasive Fungal Infections in Allogeneic Hematopoietic Stem Cell Transplant Patients – Role: University Research Reviewer – Year: 2013.
- Shirley D. Knight, Ph.D. in Public Health, Walden University – Title: Personal and Professional Factors Impacting Respiratory Therapists’ Burnout in Georgia – Role: University Research Reviewer – Status: Completed – Year: 2013.
- Valere Bekolo, Ph.D. in Public Health, Walden University - Title: Prevalence and Determinants of Chronic Kidney Disease Among Asymptomatic High-Risk Cameroonians – Role: Committee Chair – Status: Completed - Year: 2014.
- Sarah Case, Ph.D. in Public Health, Walden University – Title: Impact of Whole Grain Consumption Compliance on Gluten Sensitivity and Bowel Health – Role: Committee Member – Status: Completed – Year: 2015.
- Harold E. Taitt, Ph.D. in Public Health, Walden University – Title: Prostate Cancer and Afro-Caribbean Men: A Phenomenological Study of Experiences, Perceptions, and Beliefs – Status: Completed – Year: 2015.
- Robyn M. Hawley, Doctorate in Education, Grand Canyon University - Title: A Study to Examine Non-Profit Behavioral Health Care Leaders’ Management of Resistance to Change – Role: Committee Chair – Status: Completed – Year: 2015.
- Eluojor Onnekikami, Ph.D. in Education, Grand Canyon University – Title: Assessing Middle School Teachers’ Perspectives on How to Intervene and Mitigate Student-to-Student Incidents of Bullying and Cyberbullying in One Middle School: A Case Study – Role: Committee Chair – Status: Completed – Year 2016.
- Greg Victor Chidi Obi, Ph.D. in Global Leadership, Indiana Institute of Technology – Title: Evaluating psychological empowerment in a global context: A comparative study of employees in the United States and Liberia – Role: Committee Member – Status: Ongoing.

Other Activities

January 2011 – Present: Member, Board of Trustees, Foundation for Sustainable Development in Africa, Columbus, Ohio, USA.

October 2010 – December 2013: Co-Chair, World Togolese Foundation, Atlanta, Georgia, USA.

April 2001 – September 2005: Chairman, Pan African Heritage of Minnesota, Brooklyn Park, Minnesota, USA.

December 1999-December 2001: President, International Soccer Club; Minneapolis, Minnesota, USA.

September 1998 – August 2000: Senior Mentor, Page Education Foundation; Minneapolis, Minnesota, USA.