

## **Jemal Emina Giske, Ph.D.**

Department of Public Health, Health Administration and Health Sciences  
College of Public Health • Tennessee State University  
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### **Background:**

Dr. Jemal Giske is an associate professor in the department of Public Health, Health Administration and Health Sciences at Tennessee State University, in Nashville, TN. Prior to this appointment, he was a biostatistician at Momentum Research Inc. in Durham, N.C. and an assistant professor at Western Kentucky University. He earned B.Sc. and M.Sc. from Addis Ababa University and Advanced Diploma from International Center for Theoretical Physics (ICTP), Trieste in Italy. He received Ph.D. in mathematics and biostatistics from University of South Florida. He was a recipient of German Academic Exchange Scholarship (DAAD) and UNESCO funded scholarship at ICTP.

As a Biostatistician, he has experience working in the area of clinical trials for a Contract Research Organization, Momentum Research Inc., Durham, North Carolina. He has the expertise, experience, and interest in the applications of statistical methodologies: categorical, survival and longitudinal data analysis, exploratory and confirmatory factor analysis, and generalized linear mixed models. He collaborates in the area of public health, agriculture, sports & nutrition, health disparity studies, prostate cancer, obesity, and community-driven interventions.

He is a Co-PI in NIH grant to address health disparity and health equity; authored and co-authored research articles in peer-reviewed journals, technical reports, and a book chapter. He consults in the area of study designs, statistical methods, and data analysis. He is a user of many statistical application soft wares such as R, SAS, and SPSS.

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### **Education:**

- 2014 Ph.D. and ABD, from Department of Mathematics, and Department of Epidemiology and Biostatistics, University of South Florida  
Dissertation: "A finite family of q-orthogonal polynomials and resultants of Chebyshev polynomials";  
Advisor: Mourad Ismail, Ph.D.
  - 2001 Graduate Diploma in Mathematics, Abdus Salaam ICTP, Trieste, Italy
  - 2000 M.Sc., Department of Mathematics, Addis Ababa University, Ethiopia
  - 1995 B.Sc., Addis Ababa University, Ethiopia  
Major: Mathematics; Minor: Physics
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### Technical Skills:

**Statistics:** Generalized Linear Mixed Models, Longitudinal Data Analysis, Survival Analysis, Categorical Data Analysis, Zero Inflated Models, Exploratory and Confirmatory Factor Analysis, Imputation and Propensity Score Matching

**Statistical Softwares:**

SAS, R, SPSS, STATA, SPlus, and WINBUGS

**Text Formatting and Office Computing:** LaTeX, Word, Excel, and Power Point

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### Teaching Experience :

2015 - Present **Tennessee State University, Nashville, TN**

**Courses taught:** Principles of Epidemiology (Graduate Course), Introduction to Biostatistics, Introduction to Epidemiology, Research Methods, Health Economics, Health Promotion and Disease Prevention, and Intro to Health Care Organizations.

2011 - 2014 **University of South Florida, Tampa, FL**

**Courses taught:** Biostatistics in Society, Biostatistics I and II (Graduate level, web based and in class )

2007 - 2011 **Western Kentucky University, Bowling Green, KY**

**Courses taught:** Real Analysis I (Graduate level), Introduction to Real Analysis, Complex Variable, Calculus I, II and III, Advanced Engineering Mathematics, Trigonometry, College Algebra

2006 - 2007 **William Penn University, Oskaloosa, IA**

**Courses taught:** Introduction to Statistics, Probability I, Introduction to Real Analysis, Differential Equation, Calculus I and II

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### Research and Consultation Experience:

2021 - Present Associate Professor, TSU, Nashville, TN:

publications in peer reviewed journals, grant proposals, collaborative work, and consultation on study designs, statistical methods, data analysis and report writing.

2015 - 2021 Assistant Professor, TSU, Nashville, TN:

publications in peer reviewed journals, grant proposals, collaborative work, and consultation on study designs, statistical methods, data analysis and report writing.

2014 - 2015 Biostatistician, Momentum Research Inc., Durham, NC:

manuscripts, study designs, statistical analysis plan, statistical analysis for clinical trials, and report writing.

2011- 2014 Research Assistant, University of South Florida, Tampa, FL:

peer reviewed articles, data management, data analysis, and report writing for variety of research programs in the College of Public Health

2011- 2015 Consultant (Statistical), University of South Florida, Tampa, FL:  
assist in research planning (statistical methodology), data manage-  
ment, analysis, and report writing

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## Publications

### Peer Reviewed Publications:

1. **Gishe, J.**, Edmondson, D., Kanu, M., Barredo, R., Raynes, E., Dalin, P., and Cosby, B. **2023**. Mandatory COVID Vaccination: Perspectives from Graduate Allied Health Students at a Mid-size University in the United States. *Journal of Community Health*: <https://doi.org/10.1007/s10900-023-01297-3>
2. Daramola N Cabral, Meng-Han Tsai, **Jemal Gishe**, and Getachew A Dagne. **2023** Colorectal Cancer Risk Perceptions among Black Men in Florida, *Journal of Racial and Ethnic Health Disparities*, <https://doi.org/10.1007/s40615-023-01667-6>.
3. Barredo, R., Kanu, M., **Gishe, J.**, Raynes, E., Cosby, B., and Tolleson, T. **2023**. Stress and Stressors: The Impact of the COVID-19 Pandemic on Students, Faculty and Staff at a Historically Black College/University. *Journal of Community Health*: 48(2), PP. 269 - 285, <https://doi.org/10.1007/s10900-022-01161-w>
4. Barney, D., Pleban, F. T., and **Gishe, J.** **2022**. The Measurement of Mood States in College Students Induced by Physical Activity. *American Journal of Health Studies*, 36(3), PP. 150 - 154, <https://www.amjhealthstudies.com/index.php/ajhs/article/view>
5. **Gishe J.**, Dagne, G., Kanu, M., Patel, K., Briggs, R., Odedina, F. and Pleban, F. **2021**. Prostate Cancer: Social, Economic and Demographic Correlates of Non Use of Supplemental Diets among Black Men in Florida. *Journal of Health Disparities Research and Practice*: Vol. 14 : Iss. 2 , Article 6. <https://digitalscholarship.unlv.edu/jhdrp/vol14/iss2/6>
6. Barney D., Pleban F. and **Gishe J.** **2021**. Effects of Music on Mood During Basketball Play in Junior High School Physical Education. *Journal of The Physical Educator*, Volume 78, No 1 , pp. 31 – 42. <https://doi.org/10.18666/TPE-2021-V78-I1-10395>
7. Patel, K., **Gishe, J.**, Liu, J. et al. **2020**. Factors Influencing Recommended Cancer Screening in Low-Income African American Women in Tennessee. *J. Racial and Ethnic Health Disparities* 7: 129. <https://doi.org/10.1007/s40615-019-00642-4>
8. Patel, K., Smith, J., **Gishe, J.**, Kanu, M., Theriot, R., Liu, J., Zhou, Y. and Hargreaves, M. **2018**. Factors influencing Healthy Eating Habits among Low-Income African Americans in Tennessee. *Journal of Health Disparities Research and Practice*: Vol. 11 : Iss. 4 , Article 10. <https://digitalscholarship.unlv.edu/jhdrp/vol11/iss4/10>

9. Aregawi W., Agga G., **Gishe J.** and Abdi R. **2018**. Seroprevalence and participatory epidemiology of camelpox in Afar region of Ethiopia. *Preventive Veterinary Medicine*, <https://doi.org/10.1016/j.prevetmed.2018.10.003>
10. Patel K., Inman W., **Gishe J.**, Johnson O., Elizabeth B., Kanu M., Theriot R., Sanderson M., Hull P. and Hargreaves M. **2018**. A community-driven intervention for improving bio-specimen donation in African American communities. *Journal of Racial and Ethnic Health Disparities*, Issue No: Vol. 5, No. 1, DOI: 10.1007/s40615-017-0336-2
11. Barney D., Pleban F. and **Gishe J.** **2016**. The effects of music in enhancing the elementary physical education environment. *International Journal of Physical Education*, Volume LIII, Issue 4, 4th Quarter, pp. 23 – 32.
12. Carubelli, V., Cotter, G., Davison, B., **Gishe, J.**, Senger, S., Bonadei, I., Gorga, E., Lazzarini, V., Lombardi, C. and Metra M. **2016**. In-hospital worsening heart failure in patients admitted for acute heart failure. *International Journal of Cardiology* DOI:10.1016/j.ijcard.2016.10.002
13. Sultan, D., Stenback, J., Walker, J., Castillo-Carranza, D., **Gishe J.** and Hanciles, A. **2016**. African American, Latino, and Older Patients in a Comprehensive Cancer Center. *Atlas of Science*. Available at <http://atlasofscience.org/african-american-latino-and-older-patients-in-a-comprehensive-cancer-center/more-14471>
14. Sultan, D., **Gishe, J.**, Hanciles, A., Comins, M. and Norris, C. **2015**. Minority use of a National Cancer Institute-designated Comprehensive Cancer Center and non-specialty hospitals in two Florida regions. *Journal of Racial and Ethnic Health Disparities*, DOI: 10.1007/s40615-015-0084-0
15. **Gishe, J.** and Toókos, F. **2012** On the Sturm comparison and convexity theorem for difference and q-difference equations. *Acta Sci. Math. (Szeged)*, 78, 529–540
16. **Gishe, J.** and Ismail, M. **2008**. Resultants of Chebyshev polynomials, *Z. Anal. Anwendungen*, Volume 27, Issue 4, pp. 499 – 508.

### Technical Reports:

- Debra Mowery, Linda Callejas, Wei Wang, Thomas Burrus, **Jemal Gishe**, and Mario Hernandez, Arizona’s Children’s System of Care Practice Review Fiscal Year 2012 Statewide Report.
- Debra Mowery, Linda Callejas, Wei Wang, Thomas Burrus, **Jemal Gishe**, and Mario Hernandez, Arizona’s Children’s System of Care Practice Review Fiscal Year 2011 Statewide Report.

### Book Chapter:

- Ridda I, Mansoor S, Briggs R, **Gishe J**. Preparedness for mass gathering; the case of Hajj and Umrah attendees. The Springer 2019
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### Grants:

1. Engaging Partners in Caring Communities (EPICC): Building capacity to implement health promotion programs in African American churches  
*RFA – RM – 21 – 022* (wiith Selove (TSU), Alexander (MMC), Jones (VU), and Congregational Health and Education Network (CHEN))

**NIH** **Award Number:** 1U01OD033244–01  
**4,117,865** **09/30/2021 - 09/29/2026**

Evidence-based programs (EBPs) to reduce health disparities associated with hypertension, diabetes, cardiovascular disease, obesity, and cancer have been developed, disseminated and implemented, and yet relatively poorer health outcomes among African Americans continue to be documented. Challenges at each step of the research-to-community pipeline, and determinants of health associated with social structures and policies, undermine efforts to advance health equity. Engaging Partners in Caring Communities (EPICC) is a community-engaged research (CEnR) project designed to address these challenges by supporting delivery of evidence-based health promotion programs in churches serving African American communities, and collaborating with community partners in identifying and addressing social determinants of health.

2. COVID-19 Young Health Ambassador Program

**DHHS** **\$19,000**  
**03/01/2022 - 02/29/2024**

The purpose of this project is to maximize and utilize the human and social capital of young adults attending two Historically Black College or Universities (HBCU) in Nashville to promote health and modify risks for COVID 19 among young adults living in the target communities of color by focusing on wellness. The primary goal of the project, referred to as the HBCU Wellness Project (HWP), is to train young adult peer educators, to leverage their critical thinking, emotional intelligence and community knowledge to create educational and service-oriented resources to positively impact the health and well-being of Davidson County young adult residents.

### Submitted Grants:

1. Laboratory Epidemiology Interactions For Mitigating Public Health Burden of MDR Salmonella Serovars  
*UEI : N63ZMY7UETA3, OpportunityNumber : USDA – NIFA – AFRI –*



NIH \$4,744,875

09/14/2021 – 09/13/2025

The main goal is to create a sustainable Public Health Informatics and Technology Program that will increase the number of underrepresented minority public health professionals trained in informatics and technology through offering an undergraduate minor, certificate and graduate certificate programs in Health Informatics and Data Analytics that will address the needs of the workforce. **2021**

3. Quantification and mathematical modeling of multidrug resistant bacteria and antimicrobial resistance genes and their survival in poultry litter amended soil, grant proposal submit to FY20 AMR/ATA Funding. Collaborative work with Dr. Agga and Dr. Sistani (USDA-ARS, Bowling Green, KY), **2020**
  4. Supporting lifestyle changes to prevent cancer: Community-guided dissemination of evidence-based programs for African American church members, U54 renewal grant proposal, collaborative work with Dr. Selove (TSU) and Dr. Alexander (Meharry Medical College) and Dr. Jones (Vanderbilt). **2020**
  5. Grant proposal submitted to the National Heart Lung and Blood Institute in Octo. 2019, collaborative work with Dr. Selove (TSU) and Dr. Charles Brown (TSU). **2019**
  6. A grant proposal on Mitigating Antimicrobial Resistance by Promoting the Prudent Use of Antimicrobial on Farms: a system based Approach Submitted to USDA-AFRI Food Safety Challenge Area, with Dr. Deگو and others from University of Tennessee and Dr. Aga from USDA. **2017**
  7. A grant proposal on Youth Enjoy Science Research Education Program to expose middle school students to cancer and cancer research as strategies to increase diversity in STEM careers submitted to IMPACT-4-Cancer Research, National Cancer Institute with Dr. Williams and others from PHHAHS, Tennessee State University and others from Meharry Medical College. **2016**
  8. A grant proposal (SF 424) on Improving Informed Decision Making in African Americans with regard to Tumor Tissue Donations submitted to National Institute of Health with Dr. Kushal Patel of PHHAHA, at Tennessee State University. **2016**
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#### Submitted Articles in Peer Reviewed Journals:

- Barney D, Gurnery K, Pleban FT and **Gishe J. 2023**. Comparing the Effect of Classical and Popular Music During Physical Activities Among Junior High School Students. Asia-Pacific Journal of Health, Submitted.
- Barney D, Gurnery K, Pleban FT and **Gishe J. 2022**. Music's Effects on the Environmental Conditions of Physical Activity During Spike Ball. The Physical Educator, Accepted.

### Manuscripts in Progress:

- Arthur T, Agga G and **Gishe J.** Comparing rectoanal mucosal swab sampling method for the detection and enumeration of *E. coli* O157:H7 and detection of super shedders in beef cattle relative to fecal grab sampling method, **2020**.

### Unpublished Manuscripts:

1. **J. E. Gishe**, and M.E.H. Ismail, A finite family of  $q$ -orthogonal polynomials, submitted to Journal of Approximation Theory.
2. **Jemal Gishe**, and Dominic Lanphier, A new Integral Representation of Hypergeometric Series and Jacobi Polynomials, with Dominic Lanphier.
3. Marsha Black, **Jemal Gishe**, Kirsten Ellingsen, Wei Wang, and Mario Hernandez, Parent Involvement in Home Literacy and Community Educational Activities Home Instructional Program for Preschool Youngsters.
4. B. Benedict, **J. Gishe**, M. Hyungchu, R. Martel, R. Strain, and B. Tate, Energy consumption and interference in the BART system, NC State University

### Conference and Other Presentations:

- 2023 Taylor, M., **Gishe, J.**, Huff, N., Banks, D., Love Jr., H. State of Black Health in Tennessee, The National Black Caucus of State Legislators Town Hall Meeting (November 26, 2023. Nashville, TN)
- 2023 **Gishe, J.**, Jackson, A. Engaging Partners in Caring Communities (EPICC): Building Capacity to Implement Health Promotion Programs in African American Churches, 2nd Annual TSU Community-Engaged Research Conference Panel Presentation Poster Session (November 10, 2023. Nashville, TN)
- 2023 Selove, S., Schlundt, D., **Gishe, J.**, Idrizi, K., Ramos, S., Shankar, P., Jones, S., Perry, T., Mason, A., Alexander, L., Waltz, T. Identifying Eric Strategies Embedded in Evidence-Based (EB) Community Interventions for Health Promotion, Identifying Eric Strategies Embedded in Evidence-Based (EB) Community Interventions for Health Promotion Poster Session (May 15, 2023. Nashville, TN)
- 2022 Waltz, T., Schlundt, D., Jones, S., **Gishe, J.**, Alexander, L., Williams, N., Lee, O., Clarkson, K., Casterline, K., Ferguson, Y., Stinson, N., Tyus, N., and Selove, R. Tailoring Strategies for Implementing Behavioral Health Programs in Churches, 15th Annual Conference on the Science of Dissemination and Implementation in Health Poster Session (Dec 11 – 14, 2022. Washington, DC)



- 2022 Barredo, R., Kanu, M., **Gishe, J.**, Raynes, E., Cosby, B., and Tolleson, T. Stress and Stressors: A Pilot Study On The Impact Of The Pandemic On Students, Faculty, and Staff, Tennessee Public Health Association (TPHA) Annual Conference Poster Session (Sep 28 – 30, 2022. Murfreesboro, Tennessee)
- 2022 Selove R, Lee OD, Williams N, Alexander L, Jones S, **Gishe J**, and Schlundt D. Effectively communicating value of implementation science to our community partners, APA Annual Convention, (Aug 4 - 6, 2022. Minneapolis, Minnesota).
- 2022 Tsai, M,H., Cabral, D., **Gishe, J.** Colorectal Cancer Risk Perceptions in Black Men, Society for Epidemiologic Research Annual Meeting Poster Session, (Jun 14-17, 2022. Chicago, Illinois).
- 2019 **Gishe J**, Kanu M. Historical Perspective and Implications of Health Policies in Africa. Invited Speaker. 2nd International Conference on Inclusive Policy and Implementation Strategy for Sustainable Peace and Development in Africa. Arsi University (March 2 – 3 2019, As-sella, Ethiopia).
- 2019 College of Health Sciences Research Day; The Clinical Bottom Line: Research Summaries in the Health Sciences. TSU (April 3, 2019, Nashville, Tennessee).
- 2018 Aregawi WG, Agga GE, **Gishe J**, Abdi RD. Epidemiology of camelpox in Afar region of Ethiopi, 99th Conference of Research Workers in Animal Diseases, (Dec. 2 – Dec. 4, Chicago, Illinois).
- 2018 Patel K, **Gishe J**, Brown E and Margaret Hargreaves M. Factors Influencing Recommended Cancer Screening in Low-Income African American Women in Tennessee, Poster Presentation, TPHA, (Sep. 12 – Sep 14, Cool Springs, Tennessee).
- 2018 College of Health Sciences Research Day; The Clinical Bottom Line: Research Summaries in the Health Sciences. TSU (April 4, 2018, Nashville, Tennessee).
- 2017 Demographic characteristics of black men with no supplemental diet usage protective against prostate cancer, APHA 2017 Annual Meeting and Expo (Nov. 4 - Nov. 8, Atlanta, Georgia, USA)
- 2017 Patel K, Smith J, **Gishe J**, Brown E, Liu J, Zhou Y, Jackson C, Hargreaves M. Factors influencing healthy eating habits in low-income African Americans in Tennessee. Poster Presentation, TPHA, (Sep. 13 – Sep 15, Cool Springs, Tennessee).
- 2016 Higginson K, Barney D, Griffiths R, Pleban FT, **Gishe J.** The effects of music on elementary students Enjoyment in physical education, 2016 SHAPE America national Convention and Exposition (April 5 - April 8, Minneapolis, Minnesota)
- 2014 Cabral Ibrahim D, Dagne G, and **Gishe, J**, Colorectal Cancer Risk Perception in African American Men, Poster Presentation at African-Caribbean Cancer Consortium meeting, Philadelphia, PA
- 2013 Sultan DH, **Gishe, J**, Hancile A and Jahan N, Under-representation of Minority and Older Patients in the Cancer Patient Population of an NCI-Designated Comprehensive Cancer Center at Mid-South Sociological Association, (October 23 - 26, 2013 Atlanta, Georgia)
- 2010 Resultants of Chebyshev Polynomials,AMS and MAA Annual Joint Meeting, San Francisco, CA

- 2009 Continuous  $q$ -Jacobi Polynomials, AMS and MAA Annual Joint Meeting, Washington, DC
  - 2008 Continuous  $q$ -Jacobi Polynomials, AMS Sectional meeting, Huntsville (Alabama)
  - 2008 Basics of  $q$  polynomials, WKU Differential Equation Seminar, WKU
  - 2006 Resultants of Chebyshev Polynomials, AMS-MAA joint meeting, San Antonio (Texas)
  - 2006 Continuous  $q$ -Jacobi Polynomials, Tougaloo College, Jackson (Mississippi)
  - 2004 Wronskian determinant for orthogonal polynomials, U. of S. Florida, Tampa
  - 2003 Recovery of entire functions from special values, U. of S. Florida, Tampa
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**Professional and University Service:**

**Tennessee State University, 2015 - Present:**

- May 2023 - Present TSU Faculty Salary Study Committee
- Fall 2023 Tenure and Promotion Committee member for College of Health Sciences
- 2022 - May 2023 COHS Curriculum Committee member
- Fall 2022 MPH Program Director Search Committee member
- Fall 2022 HPSS Faculty Search Committee member
- Fall 2022 Chair of Respiratory Care/HIM Search Committee member
- Fall 2022 2023 AUPHA Self-Study for HCAP
- Fall 2022 Tenure and Promotion Committee member for Department of PH-HAHS
- 2021 - Present Faculty Senate Budget Standing Committee Member
- 2021 - Present Faculty Senate Information and Technology Standing Committee member
- Fall 2021 Tenure and Promotion Committee member for College of Public Service
- 2020 - Present Faculty Senate Web Editor
- 2019 - 2021 Tenure Track Faculty Search Committee Chair
- 2019 Participated in the commencement ceremony, May 4th, 2019
- 2019 - Present CEPH Self Study member
- 2018 - 2022 Faculty Senator
- 2015 - Present Consultation work for faculty and graduate students in the area of study designs and statistical analyses
- 2015 - Present Member of Honors College Faculty
- 2018 Participated in the commencement ceremony, May 5th, 2018
- 2018 Participated in the Honors Convocation, March 20, 2018
- 2018 - 2021 College of Health Sciences Curriculum Committee member

2017 - 2021	College of Health Sciences (COHS) Research committee
2016 - 2017	College of Health Sciences Curriculum Committee member
2018 - 2021	Chair of the department of Public Health, Health Administration and Health Sciences (PHHAHS) Curriculum committee
2018 - Present	Health Sciences Academic Audit committee
2017	Conducted SAS Workshop for graduate students and faculty from department of PHHAHS
2015 - Present	Chair of the department of PHHAHS Website Committee
2015 - Present	Graduate Comprehensive Exam Committee
2015 - Present	Undergraduate Comprehensive Exam Committee
2020 - 2022	Site Based Decision Making (SBDM) counselor for South Warren Middle School (Bowling Green, Kentucky)
2015 - Present	Advisor to Oromo Community in the state of Kentucky for civic engagement.
2016 - 2022	Serving as a member of International Oromo Advocacy Group (Advocated for the passage of House Resolution 128, Supporting respect for human rights and encouraging inclusive governance in Ethiopia, April 10, 2018)
2015 - 2017	Serve as a volunteer for the State Cup Soccer Competition for the Southern Kentucky Soccer Club (SKYSOCCER) Program
2015 - 2021	Coaching recreational soccer for young children for the betterment of their physical and mental growth at SKYSOCCER.

**Western Kentucky University, 2007 - 2011:**

- Chair of the Organizing Committee of The 30th Annual Mathematics Symposium
- Planning and Organizing Committee of The 27th, 28th and 29th Annual Mathematics Symposium
- Chair of The Colloquium/Symposium Committee, The Undergraduate Studies Committee, The Graduate Studies Committee, Scholarship/Award Committee, Calculus I & II review ad-hoc committee, The General Education Committee and Chair of The Computer Lab Committee
- Coaching high school and Gatton academy students for The American Regions Math League competitions.
- 2008 - 2011 Coach/Assistant Coach for young children at Southern Kentucky Soccer Club (SKYSOCCER)
- 2008 - 2011, Advisor of Oromo Community of Kentucky

**Professional Service:**

- NIH Center for Scientific Review U54 Common Fund Reviewer

**Journal Reviewer:**

- Cancer Causes & Control, Springer Journal
- Open Access Journal of Agriculture Research
- MAA (Mathematics Magazine)

**Thesis and Dissertation Committees:**

- 2017 Sarah Iriogbe-Efonayi, An Examination of Early Childhood Teachers' Knowledge of Self-Regulation, TSU, Tennessee
- 2010 David Sekora, Continued Fractions, WKU, Kentucky
- 2008 William Bucklew, How to Speed Up Your Car, Minimizing Damage to Automobile Motors, WKU, Kentucky
- 2007 Andrew Stevens, Investigating the discrete wavelet transform and the fast Fourier Transform for implementing in software-radios, William penn University, Iowa
- 2007 Andrew P. Stangeland, Feasibility study of relativistic, antimatter rocket propulsion, William Penn University, Iowa

**Awards and Memberships:**

- 2022 -Present Society for Epidemiologic Research
- 2017 -Present American Public Health Association
- 2005 - present Oromo Study Association
- 2017 Internal grant to attend and present at conferences, TSU (Tennessee)
- 2011 - 2016 American Society of Tropical Medicine and Hygiene
- 2001 - 2011 American Mathematical Society
- 2011 NSF-RUMC grant to organize Annual Mathematics Symposium at WKU (Kentucky)
- 2011 Internal grant to invite Scholar in Residence, WKU (Kentucky)
- 2007 - 2011 Internal grant to attend conferences, WKU (Kentucky)
- 2008 Internal grant to invite Scholar in Residence, WKU (Kentucky)
- 2006 - 2007 Internal grant to attend conferences, William Penn University (Iowa)
- 2002 - 2003 NSF summer research assistantship support, USF (Florida)
- 2001 - 2006 Fred and Helen M Tharp End Scholarship, U. of S. Florida
- 2000 - 2001 UNESCO funded scholarship at International Center for Theoretical Physics (Trieste, Italy)
- 1998 - 2000 DAAD (German Academic Exchange Scholarship), AAU (Ethiopia)
-