LOHUWA MAMUDU, Ph.D.

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EDUCATION BACKGROUND

Ph.D., University of South Florida (USF), *Tampa, Florida, USA*   *Aug 2017 – June 2021*
- Ph.D. in Mathematics (Concentration: **Statistics**)
- **Dissertation:** Data-Driven Analytical Modeling of Multiple Myeloma Cancer, U.S. Crop Production and Monitoring Process.

Masters, East Tennessee State University (ETSU), *Johnson City, Tennessee, USA*.   *Jan 2016 – Aug 2017*
- Master of Science in **Mathematical Science**
- **Thesis:** Modeling Students Enrollment at ETSU Using Discrete-Time Markov Chain. LINK

Bachelor, University for Development Studies (UDS), *Upper East Region, Navrongo, Ghana*.   *Aug 2010 – May 2014*
- Bachelor of Science in **Mathematics with Economics**
- **Final Project:** Assessing the Impact of Agricultural Development Bank (ADB) on Farmers.

PROFESSIONAL CERTIFICATION

- Student Organization Advisor Training   Feb 2023
- Citi Program Citification on Social & Behavioral Research with Human Subjects   July 2022 - 2027
- Learning for Equity Ascend Research Network - PERT Ascend Educational Program   Spring 2022
- Distinguished CHER Institute Faculty Fellow (The Center for Health Equity Research)   June 2022
- Faculty Teaching and Learning Certificate   March 2022
- Equitable Pedagogy Module Certificate   Dec 2021
- Blended/Flipped (BF) Design Certificate program   Dec 2021
- Post–Crisis Leadership Certificate, USF MUMA College of Business. Click for **Certificate Credential**   July 2020
- Machine Learning, Data Science and Deep Learning with Python from ***udemy.com***   2018 - present

SKILLS

- Mediation Analysis
- Supervised Learning
- Unsupervised Learning
- Multivariate Data Analysis
- Statistical Modeling
- Survival Analysis

- Moderation Analysis
- Machine Learning
- Bayesian Analysis
- Mathematical Statistics
- Statistical Methods
- Time Series Analysis

- Cancer Disparities
- Deep Learning
- Neural Network
- Non-parametric Analysis
- BIG Data Analysis
- Regression Analysis

WORK & PROFESSIONAL EXPERIENCE

- **Assistant Professor of Public Health**   Aug 2021 – present
  - Department of Public Health, California State University, Fullerton, CA
  - **Courses Taught:** Epidemiology, PUBH 401; Measurement and Statistics in Health PUBH, 349; Applied Statistics in Health Sc., PUBH 349L; MPH Integrated Learning Experience (ILE) Project, PUBH 597; Undergraduate Independent Study, PUBH 499
- **Director and Advisor:** Interdisciplinary Health Science Cancer Research Lab (IHSCRL),   Aug 2022 - present
  Department of Public Health, CSUF
  - Training and mentoring of students on cancer research
- **Co-Investigator**   Aug 2022 - 2026
  - Neurocognitive Aging, Analytics and Research Education (NAARE), NIH/NIA
  - Training and mentoring of students on Alzheimer's disease research
- **Statistical Fellow Position**   Aug 2022 – present

- Undergraduate Research Opportunity Center, CSUF
- Presentation/Lead in workshop series on data analysis using R/R Studio statistical software
- **Faculty Advisor:** Eta Sigma Gamma Professional Health Education Honorary Organization, CSUF   Sept 2022 - present
    - Serve as a mentor, counselor, ally, liaison, and friend to students
- **Special Cancer Research Consultant**   June 2022 - Present
    - Curriculum Developer & Mentor, Cancer Disparity Research Program (CREP), Grant Project PI – Dr. Tolmasky Marcelo, CSUF
- **Advisor/Mentor**   June – Aug 2022
    - Minority Health and Health Disparity Research Training (MHRT) Program, CSUF
- **Freelance Data Analyst (Research Collaborator)**   June 2020 – present
    - U.S. National Institute of Health (NIH), Bethesda, MD
    - **Task:** Data preparation; Data analysis; Manuscript preparation, review, and modification; Consulting on research studies
- **Instructor & Graduate Teaching Assistant**   Aug 2018 – Aug 2021
    - Department of Math & Statistics, USF, Tampa, FL.
    - **Courses Taught:** Introductory Statistics I & II (STA 2023 & 3024)
    - **Courses as T.A.:** Time Series Analysis; Math Stat I; Introductory Statistics I & II; College Algebra; Business Calculus; Life Science Calculus; Engineering Calculus; Differential Equation
- **Treasurer**   May 2018 – Aug 2021
    - America Statistical Association (ASA) USF-Student chapter
- **Graduate Teaching Assistant**   January 2016 – Jul 2017
    - Department of Math & Statistics, ETSU, Johnson City, TN.
- **Instructor & Teaching Assistant**   August 2014 – Jul 2015
    - Department of Math with Economics, UDS, Navrongo, Ghana.
- **Administrator**   2015
    - Defeat Corruption School (Elementary school), Obuasi – Ghana.

Workshop Instruction

1) **Instructor/Lead:** Introduction to Health Data Analysis Using R/R Studio, Health Data Analysis Workshop Session, CSUF Eta Sigma Gamma (ESG) 2nd Annual Public Health Symposium   04/07/2023

2) **Instructor:** Five Weeks Workshop Series on Introduction Data Analysis Using R/R Studio (*Coding, Data Manipulation & Organization, Data Description, Data Visualization, and Data Inference*)   Spring 2023
   Sponsor: Undergraduate Research Opportunity Center (UROC), CSUF

3) **Instructor:** Public Health Quantitative and Qualitative Data Workshop, CSUF   April 2022
   Title: *An Introduction to Quantitative & Qualitative Research in Health Science.*

4) **Organizer & Instructor:** Report/Paper Writing Workshop, Zoom, and Live on Facebook, CSUF   April 2022
   Title: *Introduction to Scientific Project or Paper Report Writing*

5) **Instructor:** Mid-Semester Workshop on Introduction to Data Analysis and Machine Learning Using R, SPSS, and Minitab, University of South Florida (USF)   2018 – 2021

Mentorship/Mentee

No.	Mentee name	Type/Training Period	Mentorship Project	Mentee Education Level
1.	Joanne Leslie S Reyes	Graduate/Research Assistant, 2021 - 2023	Disparities in the Likelihood of Caregiving for Mental Health among United States Adults	Master's in public health (MPH), CSUF

2.	Lanceta Mehri	Cancer Research Education Program (CREP) 2023	Disparities in Surgical Treatment of Female Localized Malignant Breast Cancer in Tennessee	Biology, Undergraduate, CSUF
3.	Sadek Sara			Computer Science, Undergraduate, CSUF
4.	Gray Megan	Summer Undergraduate Research Academy (SUReA) 2023	Disparities in Surgical Treatment of Female Localized Malignant Breast Cancer in Tennessee	Public Health, Undergraduate, CSUF
5.	Murguia Alberto			Public Health, Undergraduate, CSUF
6.	Le Anna	Summer Research Experience (SRE) 2023	Association of Chronic Disease with Depression	Public Health, Undergraduate, CSUF
7.	Diaz Jacqueline			Public Health, Undergraduate, CSUF
8.	Escobedo Jonathan	Neurocognitive Aging, Analytics, and Research Education (NAARE), 2022-2023	Assessing the Association between Alzheimer's Disease and Depression	Computer Science, Undergraduate, CSUF
9.	Castillo Mayerly			Public Health, Undergraduate, CSUF
10.	Mendoza Daisy			Public Health, Undergraduate, CSUF
11.	Abidog Leah	Cancer Research Education Program (CREP) 2022, Cancer Health Disparities Research Program (CHERP)	Cancer disparities by incidence (new cases), prevalence (existing cases), morbidity and mortality, quality of care, quality of life during treatment, access to early diagnosis, behavioral risk factors, and exposure to environmental risk factors.	Undergraduate, CSUF
12.	Castanon Gloria			Undergraduate, CSUF
13.	Domadia Radhika			Undergraduate, CSUF
14.	Escalante Jenny			Graduate (MS), CSUF
15.	Heo Sally			Post Bac
16.	Lancenta Mehri			Undergraduate, CSUF
17.	Low Jia			Graduate (MS), CSUF
18.	Mezcord Vyanka			Undergraduate, CSUF
19.	Miller Mykayla			Undergraduate, CSUF
20.	Sadek Sara			Graduate (MS), CSUF
21.	Jinyi Li	Minority Health Research Training Program (MHRT) 2022	Gender-Age Differences in Frequent Worry about Cancer Association with Self-Reported Depressive Symptoms Among US Adults	Master's in public health (MPH), University of California, Irvine (UCI)

RESEARCH INTEREST & FOCUS_____

- **Health Science**

  My research interest in health science is data-driven and interdisciplinarily focused on statistical/analytical modeling and applications of qualitative and quantitative statistical and machine learning methods and algorithms.
  - Investigating Alzheimer's Disease
  - Develop a statistical and data-driven predictive model to assess the length of survival of cancer.
  - Investigate invasive (malignant) and noninvasive (nonmalignant) cancer diseases to enhance the therapeutic/treatment strategy.
  - Investigating the parametric and non-parametric analysis of cancer survivorship. Assessing disparity and association of risk factors for invasive cancer and infectious diseases.
  - Performing geospatial analysis to assess the disparity in cancer incidence burden and infectious disease outcome. Investigating cancer surgical treatment association with sociodemographic factors, health insurance coverage, cancer stage, and the length of duration of treatment after diagnoses, factors that influence the delay in cancer treatment, and their contribution to the various stages of cancer.
  - Investigating immigration health based on depression, psychological distress, and anxiety.
  - Assessing the influence of the risk factors on the treatment delay of cancer diseases.
  - Interested in the statistical analysis of Magnetic Resonance Imaging (MRI) on cancer detection, genetics/genomics, and methods for big data.
  - Interested in developing hierarchical regression models, latent factorization models, nonparametric Bayesian models, models for sequential data, mixture models, machine learning algorithms, and improving the robustness of model misspecification and the accuracy of classification of stages for various cancer diseases.
- **Economics & Finance**

Creating a statistical model to monitor the production process (increase, constant, or decrease), and improve efficiency. Developing and improving data-driven statistical models to monitor changes in stock prices. Assessing and forecasting the returns of investment portfolios in the financial market, including parametric and non-parametric analysis. Analyzing finance BIG DATA and Improving the clustering of financial investment portfolios. Working on building statistical models to assess the factors contributing to predicting the profitability level of various business segments.

- **Cybersecurity**
Developing and improving data-driven statistical models to identify the factors contributing to the vulnerability score or level of cyber-attacks. Improving the accuracy of prediction of vulnerability in a system and assessing the impact of the vulnerability level utilizing the non-homogeneous Poisson process (NHPP). Furthermore, performing parametric and non-parametric analysis of the vulnerability score of a system to estimate the probability of a given vulnerability score.

- **Environmental Science**
Developing and improving the classification accuracy of factors contributing to global warming according to the level of impact. Developing linear and nonlinear statistical models to determine the factors contributing to the attributable factors causing climate change/global warming, utilizing both parametric and non-parametric techniques. Performing Response Surface Optimization Analysis.

RESEARCH PUBLICATIONS

1. Saanie Sulley, David Adzrago, **Lohuwa Mamudu**, Emmanuel A. Odame, Paul H. Atandoh, Ishmael Tagoe, David Ruggieri, Lisa Kahle, Faustine Williams. Assessment of prenatal depression among U.S. pregnant women without access to paid sick leave and regular place of care: National Health Interview Survey of U.S.-born and non-U.S.-born, Preventive Medicine Reports, Volume 35, 2023, 102322, ISSN 2211-3355, https://doi.org/10.1016/j.pmedr.2023.102322.
2. **Lohuwa Mamudu**, Bonita Salmeron, Emmanuel A. Odame, Paul H. Atandoh, Joanne L. Reyes, Martin Whiteside, Joshua Yang, Hadii M. Mamud, Faustine Williams. Disparities in Localized Malignant Lung Cancer Surgical Treatment: A Population-Based Cancer Registry Analysis. Cancer Medicine DOI: 10.1002/cam4.5450
3. David Adzrago, Saanie Sulley, **Lohuwa Mamudu**, Cameron K Ormiston, Faustine Williams. The influence of COVID-19 pandemic on the frequent use of e-cigarettes and its association with substance use and mental health symptoms. MDPI Behavioral Sciences DOI: 10.3390/bs12110453
4. David Adzrago, Saanie Sulley, Cameron K Ormiston, **Lohuwa Mamudu**, Faustine Williams. Differences in the perceived likelihood of receiving COVID-19 vaccine. MDPI IJERPH DOI: 10.3390/ijerph192113723
5. Adzrago D, Saanie Sulley, Ismael Tagoe, Cameron Ormiston, Emmanuel Odame, **Lohuwa Mamudu**, Williams F. Assessment of anxiety/depression among cancer patients before and during COVID-19 pandemic. Psycho-Oncology, Published 2022 August 27. https://doi.org/10.1002/pon.6026
6. Williams F, **Mamudu L**, Talham CJ, Montiel Ishino FA, Whiteside M. Sociodemographic Factors and Health Insurance Coverage Are Associated with Invasive Breast Cancer in Tennessee: Appalachian and Non-Appalachian County Comparison. *Womens Health Rep (New Rochelle)*. 2022;3(1):543-551. Published 2022 May 20. doi:10.1089/whr.2021.0136
7. Tsokos CP, **Mamudu L***. A Real Data-Driven Analytical Model for Testing for the Novel Coronavirus Disease, COVID-19. J Med - Clin Res & Rev. 2021; 5(7): 1-8. LINK
8. Salmeron, B., **Mamudu, L.**, Liu, X. *et al.* Assessing health disparities in breast cancer incidence burden in Tennessee: geospatial analysis. *BMC Women's Health* **21,** 186 (2021). https://doi.org/10.1186/s12905-021-01274-9
9. **Mamudu, L**[*]. and Tsokos, C. (2021) A New Statistical Modeling Approach for Survival Analysis of Cancer Patients—Multiple Myeloma Cancer. *Open Journal of Applied Sciences*, **10**, 365-378. doi: 10.4236/ojapps.2021.104027.
10. **Lohuwa Mamudu**[1][*], Chris P Tsokos [2] (2020) Data-Driven Statistical Modeling and Analysis of the Survival Times of Multiple Myeloma Cancer. *Health Sci J* 14:1. LINK
11. **Lohuwa Mamudu**[1][*], Chris P. Tsokos[2] (2020). Parametric and Non- Parametric Analysis of the Survival Times of Patients with Multiple Myeloma Cancer. *Open Journal of Applied Sciences*, 10, 118-134. LINK
12. **Lohuwa Mamudu**[1][*], Chris P Tsokos[12], Otunuga Oluwaseun E[3] (2020). Survival Analysis of Multiple Myeloma Cancer Using the Cox-PH Model. *Medical & Clinical Research Journal* ISSN 2577 – 8005. LINK
13. **Mamudu Lohuwa***, Michele Joyner. "Modeling Student Enrollment at ETSU Using a Discrete-Time Markov Chain Model" (2017). *Electronic Theses and Dissertations.* Paper 3310. https://dc.etsu.edu/etd/3310

PATENT PAPERS

1. **Mamudu Lohuwa**[1][*], Tsokos Chris P.[2] (2020). System and Methods Utilizing Real Data-Driven Models for Predicting and Optimizing Crop Production. Patent No. 20A078: 20A079PR (292107 – 8610)
2. **Lohuwa Mamudu,** Tsokos Chris P. (2021). System, Method, and Media for Monitoring the Production Process of a Product. (Under Patent Consideration). Disclosure No. 21A091

BOOKS

1. Chris P. Tsokos, **Lohuwa Mamudu*** (2023). Chapter 9: Recent Development of Multiple Myeloma: Analysis and Analytical Modeling Using Real Data. Cancer Research: An Interdisciplinary Approach. Book Series of Springer, 2023. https://link.springer.com/book/10.1007/978-3-031-32458-1

PAPERS UNDER REVIEW

1. Cancer Worry and its Impact on Self-Reported Depressive Symptoms among Adult Males and Females in the US: A Nationwide Sample Study; BMC Psychiatry (Under Review)
2. Association between Depression and Hypertension among US Adults by Citizenship Status; Preventive Medicine (Under Review)
3. Association of depression and self-reported health status by birthplace and citizenship status: Results from the 2010-2018 National Health Interview Survey; Journal of Affective Disorders (Under Review)
4. Time to Treatment Initiation of Invasive Lung Cancer: Disparities among Blacks and Whites in Tennessee (To be Submitted to PlosOne)
5. Nativity/birthplace, neighborhood cohesion, and duration lived in neighborhood influence on psychological distress (To be Submitted to Journal)
6. **Mamudu Lohuwa**, Tsokos Chris P. Response Surface Optimization of the Returns of Corn Production in the U.S. Using the Desirability Function Approach. (To be Submitted to Journal)
7. Mohamed Ali Abu Sheha, Chris P. Tsokos, **Lohuwa Mamudu**. Desirability Function Approach to Surface Response Optimization Analysis of Atmospheric Carbon Dioxide (CO_2) Emission in Africa. (To be submitted to Journal)

PAPERS IN PREPARATION

1. Alzheimer's Disease Link with Comorbid Conditions: Depression as Effect Modifiers
2. Disparities in Time to Surgical Treatment Initiation of Invasive Lung Cancer: Comparative Assessment Males and Females in Tennessee
3. Disparities in the Likelihood of Caregiving for Mental Health among United States Adults
4. Examination of Psychological Distress Association with Neighborhood Cohesion by Years Living in the Neighborhood.
5. Assessment of Chronic diseases on Psychological Distress among Foreign-Born Adults Aged ≥18 year.
6. Association between the likelihood to be vaccinated with COVID-19 vaccine and the likelihood of contracting COVID-19 and mental health disorder symptoms.
7. The impact of the COVID-19 pandemic on exclusive e-cigarette uses and exclusive marijuana use, and their dual use associated with mental health disorder symptoms and alcohol use frequency.
8. Associations between stress due to social distancing and symptoms of anxiety and depression among persons with and without COVID-19: differences by gender and immigrant status.

METHOD, ALGORITHM, TECHNICAL & COMPUTATIONAL SKILLS

- **Real Data-Driven Modeling and Analysis:** Data Transformation, Model Selection, and Model validations.
- **Data Science and Analytics:** R/RStudio, SQL, Python, SPSS, Minitab, Microsoft Excel, SAS.
- **Machine learning, deep learning, and data mining:** R/RStudio, Python Scikit-learn, GitHub platform.
- **Data processing and analysis:** R/RStudio, Python, SPSS, Minitab, SAS, MS Excel.
- **Big DATA analysis:** *Hadoop, Apache Spark^TM.*
- **Simulation and analysis:** Monte-Carlo-Markov-Chain (MCMC)
- **Data Dimensionality Reduction:** Principal Component Analysis (CPA), Factor Analysis.
- **Analytical Methods:** Nonlinear Regression, Bootstrapping, Power Law Process, Decision Tree, Random Forest, Classification, Clustering, Bayesian Estimation, Discrete-Time-Markov Chain.
- **Other programming languages and Software:** *LATEX*, PDF, R Markdown, MS Word, PowerPoint, Excel.

RESEARCH CONFERENCE/ Talk_____

1) **Speaker:** 4th International Conference on Psychology and Mental Health   Dec 2023
   Title: Assessment of Differences in Anxiety/Depression Among Cancer Patients Before and During the COVID-19 pandemic

2) **Speaker:** Environmental Science and Public Health Research eConference 2023 (Edition 1)   June 2023
   Title: Differences in the Perceived Likelihood of Receiving COVID-19 Vaccine

3) **Talk:** OLLI, CSUF   Jan 2023
   Title: *Disparities in Localized Malignant Lung Cancer Surgical Treatment: A Population-Based Cancer Registry Analysis*

4) **Talk:** American Cancer Society Meeting, Troy High School   Dec 2022

5) **Attendee:** Second Annual Nixon National Cancer Conference, Richard Nixon Presidential Library and Museum, 18001 Yorba Linda Blvd., Yorba Linda, CA 92886   Dec 2022

6) **Oral Presenter:** American Public Health Association 2022 Annual Meeting & Expo in Boston   Nov 2022
   Session: Cancer Epidemiology
   Title: *Assessment of Time to Treatment Initiation of Invasive Lung Cancer: Disparities within and between Blacks and Whites in the Appalachian and Non-Appalachian Region of Tennessee*

7) **Panel Speaker, and Poster:** American Public Health Association 2022 Annual Meeting & Expo in Boston   Nov 2022
   Session: Medical Care, Disease Screening, Management, and Treatment
   Title: *Assessment of Time to Treatment Initiation of Invasive Lung Cancer: Disparities within and between Blacks and Whites in the Appalachian and Non-Appalachian Region of Tennessee*

8) **Poster Presenter:** American Public Health Association 2022 Annual Meeting & Expo in Boston   Nov 2022
   Session: Hot Topics across the Cancer Control Continuum: Opportunities for Equity-Focused Approaches
   Title: *Assessment of Time to Treatment Initiation of Invasive Lung Cancer: Disparities within and between Blacks and Whites in the Appalachian and Non-Appalachian Region of Tennessee*

9) **Talk:** CSUF Faculty Noon Time Talk by Pollak Library, CSUF   Oct 2022
   Title: *Disparities in Localized Malignant Lung Cancer Surgical Treatment: A Population-Based Cancer Registry Analysis*

10) **Speaker:** International Conference and Expo on Women and Reproductive Health in Belgium, Brussel   June 2022
    Title: *Black and White Racial Disparities in Time to Treatment Initiation of Invasive Lung Cancer*

11) **Oral Presenter:** LEARN ASCEND PERT Showcase 2022 – Building student experience and build engaging, equitable classroom environments that actualize every learner   June 2022
    Title: *Assessment of the Significance of Participating in Ascend Program and the Impact of Academic Outcome*

12) **Talk:** CSUF Faculty Noon Time Talk by Pollak Library, CSUF   March 2022
    Title: *Time to Invasive Lung Cancer Treatment Initiation: Sociodemographic and Health Insurance Disparities in the Appalachian and Non-Appalachian Region of Tennessee*

13) **Attendee:** DRUGBANK Conference – Improving the Discovery of Novel Drug with Artificial Intelligence   Feb 2022

14) **Poster Presenter:** 2021 JSM Conference – Joint Statistical Meeting, American Statistical Association   Aug 2021

15) **Oral Presenter:** The ASA Biopharmaceutical Section Regulatory – Industry Statistics Workshop.   Sept 2020
    Title: Data-Driven Statistical Modeling and Analysis of the Survival Times of Multiple Myeloma Cancer.

16) **Oral Presenter:** Webinar on Health Care – Health Economics & Policy.   July 2020
    Title: Data-Driven Statistical Modeling and Analysis of the Survival Times of Multiple Myeloma Cancer.

17) **Oral Presenter:** World Congress on Cancer and Diagnostic 2020. *Role*:   June 2020
    Title: Data-Driven Statistical Modeling and Analysis of the Survival Times of Multiple Myeloma Cancer.

18) **Poster Presenter:** Symposium on Data Science & Statistics, SDSS (Beyond Big Data: Collaboration in Science, Industry, and Society).   June 2020
    Title: Data-Driven Statistical Modeling and Analysis of the Survival Times of Multiple Myeloma Cancer.

SERVICE/ OUTREACH ACTIVITY _____

1) **Associate Editor:** Preventing Chronic Disease (PCD), Centers for Disease Control and Prevention (CDC) 2023 - 2026

> **Task:**
> - Perform initial evaluation of manuscripts
> - Select and invite peer reviewers
> - Evaluate peer reviews
> - Evaluate revised manuscripts following peer review
> - Make recommendations for both initial and final decisions to the Editor in Chief

1) **Member:** Statistics Review Committee, Preventing Chronic Disease (PCD), Centers for Disease Control and Prevention (CDC) 2023 - 2026

2) **Judge:** Undergraduate Research Poster Presentations, Student Creative Activities and Research (SCAR) Day by UROC, CSUF 04/17/2023

3) **Judge:** Undergraduate Research Oral Presentations, Health and Human Development (HHD) Student Research Showcase, CSUF 04/11/2023

4) **Moderator:** Health Disparity and Policy Session, CSUF Eta Sigma Gamma (ESG) 2nd Annual Public Health Symposium 04/07/2023

5) **Abstract Reviewer:** American Public Health Association, 2023 APHA Annual Meeting, Atlanta, Georgia April 2023

> **Task:** Reviewed twelve abstracts for Cancer: Cancer Prevention and Cancer Survivorship

6) **Journal Reviewer:** Peer-Review Research Article**,** Preventing Chronic Disease (PCD), Centers for Disease Control and Prevention (CDC) Feb 2023

> **Task:** Reviewed a manuscript for PCD

7) **Director/Coordinator of the CSUF Eta Sigma Gamma 2nd Annual Public Health Symposium:** Tasked with the planning and organization of the ESG Student Symposium event for spring 2023 AY 2022/23-

8) **Member of the MPH Admission Committee:** Tasked with the evaluation of student applications for the MPH program and making admission decisions. AY 2022/23-

9) **Member of the MPH Assessment Committee:** Tasked with the evaluation and modification of criteria of student presentation assessments Fall 2022 -

10) **Member of the College of HHD Strategic Planning Committee:** Tasked with the modification of the mission, vision, and goals of the college Fall 2022 -

11) **Executive Director:** Keillo Community, Educational, and Economic Development Organization Jan 2021 -

12) **Chair/Organizer/Moderator:** Workshop on Research Method & Manuscript Preparation Oct 2022

> **Title:** *An Introduction to Research Method & Manuscript Preparation.*

13) **Panel Speaker:** Undergraduate Gaining Research Opportunity for the Cancer Workforce program, U-GROW Symposium 2022, Partnership between Cedars-Sinai Cancer Center in Los Angeles and seven LA-area campuses of the California State University. June 2022

14) **Organizer:** Public Health Quantitative and Qualitative Data Workshop April 2022

> **Title:** *An Introduction to Quantitative & Qualitative Research in Health Science.*

15) **Organizer:** Report/Paper Writing Workshop, Zoom and Live on Facebook April 2022

> **Title:** *Introduction to Scientific Project or Paper Report Writing*

16) **Member of MPH Graduate Committee,** Dept. of Public Health, CSUF: Task with assessment, evaluation, and modification of the MPH program. Aug 2021 –

17) **Member of the Undergraduate Committee,** Dept. of Public Health, CSUF: Task with assessment, evaluation, and modification of the undergraduate program.

18) **Board Member:** Keillo Community Educational and Economic Development (K-CEED), NGO Jan 2022 –

19) **Presenter:** 2021 JSM Conference – Joint Statistical Meeting, American Statistical Association Aug 2021

20) **Chairman**, Rotary International Committee, Rotary Club of Tampa, District 6890 Feb 2020/21

21) **Skelton/Jones Scholar**, Rotary International, District 7570, Johnson City, TN, USA. 2018 – 2019

22) **Volunteer**, Melting Pot, Munsey Methodist Church, Johnson City, TN, USA. 2016 – 2017

23) Four Months Community Service, Gumunaayili Community, Northern Region, Ghana. 2012 & 2013

HONOR & AWARDS

- **Diversity, Equity, and Inclusion Award:** 2023 CSUF Award Program — April 2023
  Description: Best practice in eliminating disparities in educational attainment through equity-oriented approaches, Learning for Equity Ascend Research Network (LEARN) Community of Practice (CoP), CSUF
- **Betty J. Cleckley Minority Issues Research Award:** — Nov 2022
  Award Winner paper: *"Assessment of Time to Treatment Initiation of Invasive Lung Cancer: Disparities within and between Blacks and Whites in the Appalachian and Non-Appalachian Region of Tennessee"*, The Aging and Public Health Section, APHA 150th Annual Meeting and Expo, 2022
  Description: Best research that addresses minority issues
- **Certificate of Excellence:** Learning for Equity Ascend Research Network (LEARN) Program, CSUF — Spring 2022
  Description: Commitment to measuring and improving student experience to create classroom experiences that cultivate academic engagement and success.
- **Distinguished CHER Institute Faculty Fellow**, The Center for Health Equity Research — June 2022
- **Nominee,** 2022 Titan Excellence Award, CSUF — Feb 2022
- **Certificate of Recognition** as Speaker at the Cardiology Webinar 2021 — June 2021
- Tharp Endowed Award: **Outstanding Graduate Student Scholarship** ($763.21), College of Art & Sciences, USF — Feb 2021
- **Certificate of Recognition** as Speaker at the LONGDOM Conference on Healthcare – Health Economics & Policy, Japan. — July 2020
- **Certificate of Recognition** as Speaker at the World Congress on Cancer and Diagnostics 2020 — June 2020
- **Journal Reviewer/Referee** for Open Journal of Applied Sciences (OJAPPS) — Aug 2020
- **Journal Reviewer/Referee** for Open Science Journal (OSJI). — April 2020
- **Journal Reviewer/Referee** for Cogent Environmental Science. — April 2020
- Tharp Endowed Award: **Outstanding Graduate Student Scholarship** ($538.56), College of Art & Sciences, USF — Jan 2020
- Awarded Global grant: **Skelton-Jones Scholarship** by Rotary International ($35,000), District 7570, Johnson City, TN. — Aug 2018
- Appreciation for an **outstanding role as finance committee chairman** of the Mathematical Student Association, UDS, Ghana. — 2014

CONTRACTS AND GRANTS

- **Principal Investigator**
  Economic and Community Development, Global grant, Skelton-Jones Scholarship**,** Rotary International, District 7570, Johnson City, TN, $35,000 — 08/01/18 – 07/31/19
- **Co-Investigator**
  Neurocognitive Aging, Analytics and Research Education (NAARE), NIH/NIA $1,789,638 — 06/01/2021 – 05/31/2026

PROFESSIONAL MEMBERSHIP

- **Member,** American Public Health Association (APHA) — Jan 2022 –
  Section Member: Aging & Public Health, Cancer Epidemiology, Applied Public Health; Early-Career Professional
- **Member,** Rotary Club of Tampa, District 6890, Florida — February 2019 –
- **Member,** Alumni of East Tennessee State University (ETSU) — August 2017 –
- **Member,** Interdisciplinary Data Sciences Consortium (IDSC) — August 2017 – Aug 2021
- **Member,** American Statistical Association (ASA) — August 2017 –
- **Member,** American Mathematical Society (AMS) — August 2016 –

Referee(s) Available on Request