Linda Appiagyei Amoafo

Curriculum Vitae

Division of Biostatistics
Department of Population Health Sciences,
University of Utah, UT 84108

Study Design and Biostatistics Center
Salt Lake City, Utah 84133

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RESEARCH INTERESTS: Clinical trial design, Case-crossover design, Machine learning, Survival analysis, Causal inference and Sensitivity analysis .

EDUCATION

- **Ph.D. — Biostatistics,** *Population Health Sciences Department, University of Utah, Salt Lake City, UT* *Current*
  Competed 3 years of coursework
- **MS — Statistics,** *Northern Arizona University***,** *Flagstaff, AZ* *May 2019*
- **BS — Statistics,** *Kwame Nkrumah University of Science and Technology***,** *Kumasi, Ghana* *July 2016*

PROGRAMMING SKILLS

- **R**: Proficient
- **SAS**: Intermediate

COLLABORATIVE RESEARCH

- **Graduate Research Assistant: Study Design and Biostatistics Center (SDBC), University of Utah** May 2020 – Present
  SDBC, a part of the University of Utah School of Medicine, collaborates with researchers affiliated with the University of Utah and advances high-quality research at the University of Utah and affiliated institutions.

  Advisor: Yue Zhang

  - Leading the data management and analysis/algorithm for evaluating the accuracy of a diagnostic algorithm in a pediatric clinical care setting for patients with clinical suspicion of Sjögren's syndrome
  - Leading the data management and analysis for evaluating the effectiveness of tele-health visits during COVID-19 pandemic
  - Leading the data management and analysis on a study for enhancing a multidisciplinary research network for research and quality in epilepsy and cerebral palsy
  - Led the data management and analysis for the efficacy of 1540nm erbium glass laser to treat benign dermatofibromas
  - Collaborating on the prevalence of immune related adverse events in cancer immune checkpoint therapy: A systematic review and meta-analysis
  - Led the data management and analysis for the effect of preoperative pregabalin on phase 1 recovery duration in the PACU
  - Led the data management and analysis using EHR conducted by the Center for Clinical and Translational Science (CCTS)
  - Led the data management and analysis of patient satisfaction surveys after the implementation of virtual tele-health out patient visits during the COVID pandemic
  - Led the data management and analysis using data from Inter-mountain Healthcare electronic data warehouse.
  - Led the data management and analysis of the association of Preoperative Patient-Reported Outcome Measures with Preoperative Risk Stratification Methods and Postoperative Clinical Outcomes in Adults Undergoing Spine Surgery
  - Led the data management and analysis in investigating the correlation between PROMIS PI, PROMIS PF with NRS/VAS pain scales measured at 3 time points in spine patients
  - Assist collaborators with the statistical Analysis and power/sample size calculations for grant proposals.

- **Graduate Research Assistant: Rocky Mountain Center for Occupational and Environmental Health,** July 2019 – August 2020
  University of Utah

  Advisor: Matthew Thiese

  - Led data management and analysis using existing data in R and SAS.
  - Helped in writing SAS codes for teaching in the Bio statistics class.
  - Provided advice to students for their graduation projects, which include survey design and statistical analysis.

Teaching/Leadership Experience

- **Graduate Teaching Assistant: Department of Mathematics and Statistics, Northern Arizona University**   August 2017 – May 2019
  - Primary instructor for two sections of Applied Statistics.
  - Primary instructor for four sections of Quantitative Reasoning which was taught in modified emporium model
  - Provided assistance and tutoring at the Lumberjack Mathematics Center.
  - Developed strong interpersonal skills and provided academic counselling to students.

- **Teaching Assistant: Kwame Nkrumah University of Science and Technology**   August 2016 – August 2017
  Advisor: Richard Avuglah
  - Conduct tutorials on Design and analysis of Experiments, Probability and Statistics, Statistical Methods for undergraduate students.
  - Update class statistics for various courses.
  - Prepare academic materials for teaching, research work and presentations.
  - Assist Senior year students in their research paper.

Professional/Internship Experience

- **Intern: Eli Lilly and Company**   June 2022 – August 2022
  - Conceptualizing research plans, and developing methods for sensitivity analysis using simulated Unmeasured confounder to evaluate the potential effect of an unmeasured confounder in estimating the optimal individualized treatment recommendations (ITR).
  - Generating evidence and providing insights into the problems of conducting inference in observational studies in the face of unmeasured confounding based on an extensive simulation study
  - Exploring existing methods and developing re-usable code allowing for pilot studies and potentially expand the use of this approach.

- **Intern: KAS Estate Ghana Limited, Accra-Ghana**   May 2015 – August 2015
  - Data entry clerk.
  - Analysed geographical data to inform decision on where to acquire lands
  - Educate clients on various products available.

- **Intern: Nsawam Government Hospital (Ghana), Records Department.**   May 2014 – August 2014
  - Register and record personal information on new patients.
  - Analyzed Health data for the hospital record.

- **Intern: Ghana Statistical Service**   May 2013 – August 2013
  - Assisted in compiling, entering, analyzing and interpreting census data.
  - Analyzed data for the men and women compendium.

Awards and Certificates

- Best Graduating Student (Bsc Statistics, KNUST) July, 2016
- Overall Best Student, Statistics, College of Science, (KNUST). 2012/2013

ARTICLES IN REFEREED JOURNALS

1. Merris, J., Phillips, A. L., Hegmann, K. T., Owens, J. D., **Amoafo, L. A.**, Thiese, M. S. (2020). Morphine Equivalent Dose-Days (MED-D): Predicting the Impact of Opioid Prescription on Total Workers' Compensation Claim Costs for Acute Low Back Pain. Journal of occupational and environmental medicine, 62(9), 700-705.

2. Alderden, J., **Amoafo, L.**, Zhang, Y., Fife, C., Yap, D., Yap, T. (2021). Comparing Risk Profiles in Critical Care Patients With Stage 2 and Deep Tissue Pressure Injuries: Exploratory Retrospective Cohort Study. JMIR Dermatology, 4(2), e29757.

3. Sulkar, H., Knighton, T., **Amoafo, L.**, Aliaj, K., Kolz, C., Zhang, Y., ... Henninger, H. (2021). In Vitro Simulation of Shoulder Motion Driven by 3D Scapular and Humeral Kinematics. Journal of Biomechanical Engineering.

4. Hendrickson, N. R., Zhang, Y., **Amoafo, L.**, Randell, Z., Rasumussen, M., Zeidan, M., ... Spiker, W. R. (2022). Risk Factors for Postoperative Ileus in Patients Undergoing Spine Surgery. Global Spine Journal, 21925682221075056.

5. Nishimoto, J., Patterson, B., **Amoafo, L. A.**, Zhang, Y., Fang, J. C. (2022). Su1008: COMPARISON OF PATIENT SATISFACTION SURVEYS OF IN PERSON VERSUS TELEHEALTH OUTPATIENT CLINIC VISITS DURING THE COVID PANDEMIC. Gastroenterology, 162(7), S-477.