

# Samuel Anyaso-Samuel, Ph.D.

---

|                         |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTACT INFORMATION     | Department of Epidemiology & Biostatistics<br>Arnold School of Public Health<br>University of South Carolina<br>915 Green Street<br>Columbia, SC 29208                                                                                                                                                                                              | Cell: (208) 216-9207<br>Office: (803) 777-3170<br>Email: <a href="mailto:anyasosc@mailbox.sc.edu">anyasosc@mailbox.sc.edu</a><br>Website: <a href="http://samuelanyaso.github.io">samuelanyaso.github.io</a> |
| RESEARCH INTERESTS      | Integrative Analysis of Multi-Omics Data, Microbiome, Cancer Epidemiology, Graphical Models, Cluster-correlated data analysis, Univariate and Multivariate time-to-event data analysis.                                                                                                                                                             |                                                                                                                                                                                                              |
| PROFESSIONAL EXPERIENCE | <b>Assistant Professor</b><br><a href="#">Department of Epidemiology &amp; Biostatistics</a><br><a href="#">Arnold School of Public Health</a><br><a href="#">University of South Carolina</a> , Columbia, SC, USA                                                                                                                                  | <b>Aug. 2026 - Present</b>                                                                                                                                                                                   |
|                         | <b>Postdoctoral Research Fellow</b><br><a href="#">Biostatistics Branch</a><br><a href="#">Division of Cancer Epidemiology &amp; Genetics</a><br><a href="#">National Cancer Institute</a> , Bethesda, MD, USA                                                                                                                                      | <b>Sept. 2023 - Aug. 2026</b>                                                                                                                                                                                |
|                         | <b>Biostatistician</b><br>Brain Rehabilitation Research Center<br><a href="#">NF/SG VHS Malcom Randall VA Medical Center</a> , Gainesville, FL, USA                                                                                                                                                                                                 | <b>Aug. 2020 - Aug. 2023</b>                                                                                                                                                                                 |
|                         | <b>Graduate Research and Teaching Assistant</b><br><a href="#">Department of Biostatistics</a><br><a href="#">University of Florida</a> , Gainesville, FL, USA                                                                                                                                                                                      | <b>Aug. 2019 - Aug. 2023</b>                                                                                                                                                                                 |
|                         | <b>Graduate Teaching Assistant</b><br><a href="#">Department of Mathematics</a><br><a href="#">Boise State University</a> , Boise, ID, USA                                                                                                                                                                                                          | <b>Aug. 2017 - May 2019</b>                                                                                                                                                                                  |
|                         | <b>University of Florida</b> , Gainesville, FL, USA<br>Doctor of Philosophy (Ph.D.), <a href="#">Biostatistics</a> <ul style="list-style-type: none"><li>• Thesis Topic: <i>Advances in cluster-correlated data analysis when cluster size is informative</i></li><li>• Advisor: <a href="#">Somnath Datta, Ph.D.</a></li></ul>                     | <b>Aug. 2023</b>                                                                                                                                                                                             |
| EDUCATION               | <b>Boise State University</b> , Boise, ID, USA<br>Master of Science (M.S.), <a href="#">Mathematics</a> <ul style="list-style-type: none"><li>• Thesis Topic: <i>Dynamic Sampling Versions of Popular SPC charts for Big Data Analysis</i></li><li>• Advisor: <a href="#">Partha Mukherjee, Ph.D.</a></li><li>• Area of Study: Statistics</li></ul> | <b>May 2019</b>                                                                                                                                                                                              |
|                         | <b>Federal University of Technology, Owerri</b> , Nigeria<br>Bachelor of Technology (BTech.), Statistics <ul style="list-style-type: none"><li>• Thesis Topic: <i>Some contributions to the interpretation of Fuzzy Regression Intervals</i></li><li>• Advisor: Benson Onoghojobi, Ph.D.</li></ul>                                                  | <b>Dec. 2014</b>                                                                                                                                                                                             |

## HONORS AND AWARDS

- NIH Fellows' Award for Research Excellence (June 2026)
- Selected for Multi Omics NETwork Analysis (MONET) Workshop at University of Colorado Anschutz Medical Campus (June 2025)
- Blackwell-Tapia Conference – Travel Award (Nov. 2024)
- Southern Regional Council on Statistics Summer Research Conference – Travel Award (May 2024).
- 2023 Lifetime Data Science Conference – Student Poster Award (June 2023).
- 2023 Symposium on Data Science & Statistics - Student & Early Career Travel Award (May 2023).
- Poster Award (Data Science); 2022 College of Medicine Research Day (Apr. 2022).
- UF Department of Biostatistics PhD Travel Award (Mar. 2022).
- 2020 Intelligent Systems for Molecular Biology - Fellowship Award (July 2020).
- 36th ASA Quality & Productivity Research Conference - Student Scholarship (June 2019).
- 2019 ASA/IMS Spring Research Conference - Student Scholarship (May 2019).
- Best Poster; Workshop on Emerging Data Science Methods for Complex Biomedical and Cyber Data, *Department of Population Health Sciences, Medical College of Georgia* (Mar. 2019).
- Best Poster from College of Engineering; Boise State University service-learning student exhibition, *Boise State University* (Dec. 2018).
- Student Representative, American Statistical Association, *Boise State University* (June 2018).
- Graduate Summer Fellowship, Department of Mathematics, *Boise State University* (May 2018).
- Alfred M. Dufty Jr. Award, *Boise State University* (May 2018).
- Computing Research Association (CRA) Sponsorship for CRA URMD workshop (Mar. 2018).
- Graduate Residential Scholars Program, *Boise State University* (Aug. 2017).

## PUBLICATIONS

16. Bather, J., **Anyaso-Samuel, S.**, Chen, Y., Elliott, L., Bennett, A., and Goodman, M. (2026) Cluster-weighted modified Poisson regression for estimating risk ratios in longitudinal data with informative cluster sizes. *Accepted at Epidemiologic Methods*.
15. Abubakar, M., Shahin, S., ..., **Anyaso-Samuel, S.**, ..., Shi, J., Yang, X. (2026). Multi-platform spatial profiling reveals intra-tumor heterogeneity in immune and tumor markers in breast tumors from Kenyan patients. *Accepted at Breast Cancer Research*.
14. **Anyaso-Samuel, S.** and Ramos, M. (2026) Self-Reported Statistical Literacy and Conditional Willingness to Use Statistics in Everyday Decision-Making: Evidence from a National Survey of U.S. Adults. *Accepted at PlosOne*.
13. Qin, F., Hua, X., ..., **Anyaso-Samuel, S.**, ..., Shi, J., Yu, K. (2026). Identification of immune cell type-specific susceptibility genes in multiple cancers using transcriptome-wide association studies. *Accepted at JNCI*.
12. **Anyaso-Samuel S.**, and Datta S. (2026). Nonparametric estimation of a state entry time distribution conditional on a “past” state occupation in a progressive multistate model with current status data. [doi.org/10.48550/arXiv.2405.05781](https://doi.org/10.48550/arXiv.2405.05781) *Accepted at Lifetime Data Analysis*.
11. Li, F., **Anyaso-Samuel, S.**, Yano, Y., Chang, V. C., Hua, X., Wan, Y., ... & Vogtmann, E. (2026). Association between diet quality and the oral microbiome in three US cohort studies. *Journal of Oral Microbiology*, 18(1), 2635238.
10. Wei, Z., Zhang, T., ..., **Anyaso-Samuel, S.**, ..., Shi, J., Landi, M. (2026). A prognostic signature for lung adenocarcinoma in people who have never smoked. *Accepted at Cancer Discovery*.
9. McElderry, J., Zhang, T., Zhao, W., Hoang, P., **Anyaso-Samuel, S.**, ..., Landi, M. (2025). Comprehensive microbiome analysis of 940 lung cancers in never-smokers. *Accepted at Nature Communications*.

8. **Anyaso-Samuel S.**, Datta S., Roos E., Nevalainen J. (2025). Can the unit size predict outcomes? Testing for informativeness in three-level designs. *Statistics in Medicine*, 44(6), p.e70041.
7. **Anyaso-Samuel S.**, and Datta S. (2024). Testing for marginal covariate effect when the subgroup size induced by the covariate is informative. *Statistical Methods in Medical Research*, 33(7):1264-1277.
6. Sarkar S., **Anyaso-Samuel S.**, Qiu P., and Datta S. (2024). Multiblock Partial Least Squares and Rank Aggregation: Applications to Detection of Bacteriophages Associated with Antimicrobial Resistance in the Presence of Potential Confounding Factors. *Statistics in Medicine*, 43(13):2527-2546.
5. Leinen M., Grandy E., ..., **Anyaso-Samuel S.**, Datta S., and Schiefer M. (2024). Bilateral Subdiaphragmatic Vagal Nerve Stimulation Using a Novel Waveform Decreases Body Weight, Food Consumption, Adiposity, and Activity in Obesity-Prone Rats. *Obesity Surgery*, 34(1):1-14.
4. **Anyaso-Samuel S.**, Bandyopadhyay D, and Datta S. (2023). Pseudo-value regression of clustered current status data with informative cluster or subcluster sizes in a multistate model. *Statistical Methods in Medical Research*, 32(8):1494-1510.
3. **Anyaso-Samuel S.**, and Datta S. (2023). Adjusting for informative cluster size in pseudo-value based regression approaches with clustered time-to-event data. *Statistics in Medicine*, 42(13): 2162-2178.
2. **Anyaso-Samuel S.**, Sachdeva A., Guha S., and Datta S. (2021). Bioinformatics preprocessing of microbiome data with an application to metagenomic forensics. In *Statistical Analysis of Microbiome Data*, (pp. 45-78), Eds: S. Datta and S. Guha, Springer.
1. **Anyaso-Samuel S.**, Sachdeva A., Guha, S., and Datta S. (2021). Metagenomic geolocation prediction using an adaptive ensemble classifier. *Frontiers in Genetics*, 12, p.642282.
9. **Anyaso-Samuel S.**, Luong, T., ..., Albert, P., Shi, J. Using Importance Sampling to Estimate p-values in All-Subset Meta-Analysis, with Applications to Single-Cell eQTL Mapping. [doi.org/10.48550/arXiv.2604.23085](https://doi.org/10.48550/arXiv.2604.23085) Submitted (2026+).
8. **Anyaso-Samuel S.**, Li, S., ..., Albert, P., Shi, J. Identifying High-Dimensional Genomic Factors Modulating Biological Networks Across Multi-Omic Data. [doi.org/10.64898/2025.12.18.695273](https://doi.org/10.64898/2025.12.18.695273) Submitted (2026+).
7. Thakur, R., Xu, M., Thornock, A., Yon, J., **Anyaso-Samuel, S.**, ..., Shi, J., Brown, K. Functional characterization of the 9q34.13 melanoma risk locus identifies *RAPGEF1* as a melanoma risk and nevus gene linked to RAS activation. Submitted (2026+).
6. Thong, L., ..., **Anyaso-Samuel, S.**, ..., Choi, J. Single-cell eQTL dataset of lung tissues from Asian never-smokers highlight the roles of alveolar epithelial cells in lung cancer etiology. Submitted (2026+).
5. Qin, F., Hua, X., ..., **Anyaso-Samuel, S.**, ..., Zhang, H., Yu, K. Integrative gene set analysis reveals novel gene sets and biological mechanisms underlying breast cancer susceptibility. Submitted (2026+).
4. Ferro, L., **Anyaso-Samuel, S.**, ..., Vogtmann, E. Associations between commonly consumed beverages and the oral microbiome in three US cohort studies. In Preparation.

IN  
REVISION/REVIEW/  
PREPARATION:

3. **Anyaso-Samuel S.**, Albert, P., Shi, J. **MoSCNet**: a computational tool to uncover Genetic Modulators of Gene Expression Networks in Single-Cell RNA-Seq studies. *In Preparation*.
2. Ke, C., **Anyaso-Samuel S.**, Bandyopadhyay, D. Kernel-based Sufficient Dimension Reduction For Single-index Survival Model. *In Preparation*.
1. **Anyaso-Samuel S.**, Bandyopadhyay, D., Datta, S. **msspack**: An R package for nonparametric estimation of temporal functions in a progressive multistate model with current status data. *In Preparation*.

#### OTHER ABSTRACTS

3. Ashby F., **Anyaso-Samuel S.**, Gamlin P., Kabbej N., Andraka N., Mandel R., Riva A., Datta S., Heldermon C. AAV-barcoding for High-throughput Screening of Vector Transduction Efficiency in the CNS of Cynomolgus Macaques Compared to C57BL/6 Mice. *Florida Genetics Symposium*, Gainesville, FL, (Nov. 2022).
2. Kabbej N., Ashby F.J., Riva A., **Anyaso-Samuel S.**, Datta S., Heldermon C.D. Transcriptomic Disparities Between Male and Female Non-Human Primates Related to AAV Transduction Efficiency. *American Society of Gene & Cell Therapy (ASGCT) 25th Annual Meeting*, Washington DC, (May 2022).
1. Ashby F., Kabbej N., Riva A., Rouse C.J., Hawkins K., Andraka N., **Anyaso-Samuel S.**, Gamlin P., Mandel R., Kondratov O., Zolotukhin S., Datta S., Heldermon C. Genetic Barcoding Identifies Similar Transduction Efficiency Rankings within Disease Models of Sanfilippo Syndrome Type-B and Controls. *19th Annual WORLDSymposium*, Orlando, FL, (Feb. 2022).

#### PRESENTATIONS

##### Invited Talks & Mini-symposiums

- Accurate p-value Estimation for All-Subset Meta-Analysis via Importance Sampling, with Applications to Single-Cell eQTL Mapping, *19th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics*, BERLIN, GERMANY (Dec. 2026).
- Young Investigators Panel: My burgeoning career path as a collaborative biostatistician, *Division of Cancer Epidemiology & Genetics*, NCI (June 2026).
- From Graduate School to the Next Chapter: Navigating the NIH Postdoctoral Experience, *Department of Biostatistics and Data Science, University of Texas Health Science Center at Houston* (Jan. 2026).
- Uncovering high-dimensional genomic signals modulating biological networks via Gaussian graphical models, *19th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics*, LONDON, U.K (Dec. 2025)
- Identifying high-dimensional genomic factors associated with biological networks, *Department of Biostatistics at Virginia Commonwealth University* (Aug. 2025).
- Inference for current status observations in a multi-state setting, *Department of Statistical Sciences and Operations Research at Virginia Commonwealth University* (Aug. 2025).
- Early career panel: Transition from graduate school to the workplace, *2025 Diversity Mentoring Workshop at the Joint Statistical Meetings*, NASHVILLE, TN (Aug. 2025).
- Nonparametric estimation of a future state occupation given the knowledge of a past state occupation in a multistate model with current status data, *2025 Lifetime Data Science Conference*, BROOKLYN, NY (May 2025).
- Identifying High-Dimensional Genomic Factor Associations in Biological Networks, *Department of Quantitative Health Sciences at the University of Hawai'i* (Apr. 2025).

- Estimating marginal association in clustered data with informative subgroups induced by a given covariate, *The 7th International Conference on Econometrics and Statistics*, BEIJING, CHINA (July 2024)
- Regression analysis for clustered multistate current status data using the pseudo-value approach, *2023 Symposium on Data Science & Statistics*, ST. LOUIS, MO (May 2023).
- Regression analysis of clustered time-to-event data when the cluster size is informative: a pseudo-value approach, *Department of Epidemiology and Biostatistics, West Virginia University* (Mar. 2023).
- Pseudo-value-based regression analysis of clustered multistate time-to-event data when the cluster size is informative, *Biostatistics Branch, National Cancer Institute* (Mar. 2023).
- Regression analysis of clustered time-to-event data when the cluster size is informative, *Division of Computing, Analytics, and Mathematics, University of Missouri*, KANSAS CITY (Feb. 2023).
- Regression analysis of clustered time-to-event data when the cluster size is informative, *UFSTAT Student Seminar Series*, GAINESVILLE, FL (Feb. 2023).
- Bioinformatics Pre-processing of Microbiome Data with an Application to Metagenomics Forensics, *2021 Joint Statistical Meetings*, VIRTUAL CONFERENCE (Aug. 2021).
- Metagenomic Geolocation Prediction Using an Adaptive Ensemble Classifier, *28th Conference on Intelligent Systems for Molecular Biology*, VIRTUAL CONFERENCE (July 2020).
- Fuzzy Regression Intervals, Graduate Student Seminar, *Department of Mathematics, Boise State University*, BOISE, ID (Dec. 2017).

#### Contributed Talks

- **MoSCNet**: a computational tool to uncover Genetic Modulators of Gene Expression Networks in Single-Cell RNA-Seq studies, *2026 Joint Statistical Meetings*, BOSTON, MA (Aug. 2026).
- **MoSCNet**: a computational tool to uncover Genetic Modulators of Gene Expression Networks in Single-Cell RNA-Seq studies, *2026 ENAR Spring meeting*, INDIANAPOLIS, IN (Mar. 2026).
- Identifying high-dimensional genomic factors associated with biological networks, *2025 Joint Statistical Meetings*, NASHVILLE, TN (Aug. 2025).
- Can the unit size predict outcomes? Testing for informativeness in three-level designs, *2025 ENAR Spring meeting*, NEW ORLEANS, LA (Mar. 2025).
- Nonparametric estimation of a future state occupation given the knowledge of a past state occupation in a multistate model with current status data, *2024 Joint Statistical Meetings*, PORTLAND, OR (Aug. 2024).
- Testing for Marginal Covariate Effect when the Subgroup Size Induced by the Covariate is Informative, *2024 ENAR Spring meeting*, BALTIMORE, MD (Mar. 2024).
- Regression analysis of multistate current status data with informative cluster sizes: a pseudo-value approach, *UF PHHP Research Day 2023*, GAINESVILLE, FL (Feb. 2023).
- Adjusting for Informative Cluster Size in Pseudo-Value-Based Regression Approaches with Clustered Time-to-Event Data, *2022 Joint Statistical Meetings*, WASHINGTON DC (Aug. 2022).
- Pseudo-value based regression for clustered time-to-event data when cluster size is informative, *UF PHHP Research Day 2022*, VIRTUAL CONFERENCE (Feb. 2022).
- Bioinformatics Pre-processing of Microbiome Data with an Application to Metagenomics Forensics, *UF PHHP Research Day 2021*, VIRTUAL CONFERENCE (Feb. 2021)

#### Posters

- Identifying high-dimensional genomic factors associated with biological networks, *11th Workshop on Biostatistics and Bioinformatics*, ATLANTA, GA (May 2026).
- Identifying high-dimensional genomic factors associated with biological networks, *NIH Research Festival*, BETHESDA, MD (Sept. 2025).
- Testing for Marginal Covariate Effect When the Subgroup Size Induced by the Covariate is Informative, *Blackwell-Tapia Conference*, PROVIDENCE, RI (Nov. 2024).
- Testing for Marginal Covariate Effect When the Subgroup Size Induced by the Covariate is Informative, *The Southern Regional Council on Statistics 59th Summer Research Conference*, CLEMSON, SC (June 2024).
- Pseudo-Value Regression of Clustered Current Status Data with Informative Cluster or Sub-cluster Sizes in a Multistate Model, *2023 Lifetime Data Science Conference*, RALEIGH, NC (May 2023).
- Pseudo-Value Regression of Clustered Current Status Data with Informative Cluster or Sub-cluster Sizes in a Multistate Model, *2023 Annual ASA Florida Chapter Meeting*, GAINESVILLE, FL (Mar. 2023).
- Pseudo-Value Regression of Clustered Current Status Data with Informative Cluster or Sub-cluster Sizes in a Multistate Model, *2023 ENAR Spring meeting*, NASHVILLE, TN (Mar. 2023).
- Pseudo-value based regression for clustered time-to-event data when cluster size is informative, *2022 International Chinese Statistical Association (ICSA) Applied Statistics Symposium*, GAINESVILLE, FL (June 2022).
- Pseudo-value based regression for clustered time-to-event data when cluster size is informative, *UF College of Medicine Research Day 2022*, GAINESVILLE, FL (Apr. 2022).
- EWMA Control Chart with a Dynamic Sampling Scheme, *2019 Quality and Productivity Research Conference*, WASHINGTON D.C. (June 2019).
- Dynamic Sampling Versions of Popular SPC charts for Big Data Analysis, *2019 IMS/ASA Spring Research Conference*, BLACKSBURG, VA. (May 2019).
- Statistical Process Control Charts for Monitoring Big Data Streams, *Workshop on Emerging Data Science Methods for Complex Biomedical and Cyber Data*, AUGUSTA, GA. (Mar. 2019).
- Using Data Science to help Idaho cities make hiring decisions, *Boise State University Service-learning student exhibition*, BOISE, ID. (Dec. 2018).
- Some contributions to the interpretation of Fuzzy Regression Intervals, *Computing Research Association URMD Workshop*, SAN DIEGO, CA. (Mar. 2018).

## GRANTS

### Brain Rehabilitation Research Projects

Aug. 2020 - Aug. 2023

Studies Agency: U.S. Department of Veterans Affairs (PI: D. Clark, R. M. Bauer)

Grant Type: IPA

Grant Role: Statistician

### WISE II - Obesity and Type-2 Diabetes:

#### Bariatric Surgery Effects on Brain Function

Nov. 2022 - Aug. 2023

Studies Agency: NIH/NIDDK (PI: E. Porges)

Grant Type: R01 DK099334-06A1

Grant Role: Graduate Research Assistant

## SOFTWARE

7. **Anyaso-Samuel S.**, Albert, P.S., Shi, J. **assetIS** is an R package that provides efficient importance-

sampling estimators of extreme tail probabilities for subset-based meta-analysis statistics.

6. **Anyaso-Samuel S.**, Albert, P.S., Shi, J. **GFBioNet** is an R package that learns a network for biological traits via Gaussian graphical modeling and maps genomic factors modulating specific edges using node-wise regression. It reports *trait-trait-factor* triplets with robust false-discovery control, even under strong predictor correlation.
5. **Anyaso-Samuel S.** and Datta S. **crspack** R package to conduct inference based on rank-sum statistics for cluster-correlated data with informativeness of the total cluster size, informativeness of a binary covariate distribution or informativeness of a subject-level covariate distribution.
4. **Anyaso-Samuel S.**, Bandyopadhyay D., and Datta S. **msspack2**. R package for estimating several temporal functions (e.g. state occupation probabilities) for current-status data from a general multistate model. The code estimates the SOP for the setting where the current-status data is either uncorrelated or cluster-correlated.
3. **Anyaso-Samuel S.** and Datta S. **pseudoReg-ICS**. R program for estimating the state occupation probability for cluster-correlated data from a multistate model. The program allows for adjusting for informative cluster size.
2. **Anyaso-Samuel S.**, Sachdeva A., Guha S., and Datta S. **metagenomic\_data\_analysis** Suite of programs for the bioinformatics pre-processing and downstream analysis of raw sequence metagenomics data.
1. **Anyaso-Samuel S.**, and Mukherjee P. **DyAEWMA** R package for estimating the average time to signal (ATS) of an adaptive EWMA chart with a dynamic sampling scheme or the average run length (ARL) of the adaptive EWMA chart.

## TEACHING EXPERIENCE

### Short courses

- **Division of Cancer Epidemiology & Genetics**, *National Cancer Institute*

- *Multistate models for studying the natural history of cancer*

**Feb. 2025**

Co-taught this course, delivered to staff and fellows within the division as part of a lecture series on statistical modeling in cancer epidemiology.

- *Statistical Analysis – Methods for microbiome data*

**May 2026**

Co-developed and delivered a course on statistical methods for microbiome data, presented within a lecture series on human microbiome and cancer epidemiology.

- **Fostering Excellence in Biostatistics**, *ENAR*

- *Introduction to Statistical Analysis using R*

**Mar. 2025**

Co-developed and delivered this course for high school and undergraduate students.

- *Introduction to Biostatistics*

**Mar. 2026**

Facilitated a series of short talks providing a high-level, non-technical overview of biostatistical applications across diverse scientific domains to an undergraduate audience.

### Regular courses



- **Department of Biostatistics**, University of Florida

*Instructor*

**Fall 2022**

- STA 6177 - Applied Survival Analysis.

*Guest lecturer*

**Spring 2021, Spring 2022**

- PHC 7066: Large Sample Theory.  
- Gave lectures on *Modes of convergence* and *Asymptotic normality of the MLE* to PhD students.

*Teaching Assistant*

**Fall 2019 - Summer 2023**

- PHC 6937: Bayesian Biostatistical Methods
- PHC 6089: Public health computing
- PHC 6937: Frontiers in Biostatistics
- PHC 6937: Introduction to Applied Biostatistical Computing Using SAS
- PHC 6052: Introduction to Biostatistical Methods
- PHC 6937: Data Visualization in the Health Sciences
- PHC 6092: Introduction to Biostatistical Theory

- **Department of Mathematics**, Boise State University

*Instructor*

**Fall 2017, Fall 2018, Spring 2019**

- MATH 149: Pre-Calculus.
- MATH 108: Intermediate Algebra.

*Tutor*

**Spring 2018**

- Tutored students enrolled in *Intermediate Algebra*, *College Algebra* and *Pre-calculus* classes.

## PROFESSIONAL DEVELOPMENT

### Preparing Future Faculty

*Center for Teaching Excellence, University of Florida*

**Aug. 2022 - Dec. 2022**

- Competitive and selective semester-long workshop focused on preparing participants for future careers in various academic settings.
- Devoted emphasis on evidence-based teaching, learning practices, expanding mentoring team, and strategies for being a successful faculty member.

## SERVICE

### Scholarly Journal Refereeing

Referee for *Biometrics*, *Statistical Methods in Medical Research*, *Statistics in Medicine*, *Journal of Applied Statistics*, *Biometrical Journal*, *Lifetime Data Analysis*, *Sankhya B*, *BMC Medical Research Methodology*, *Pharmaceutical Statistics*, *Bioinformatics Advances*, *Frontiers in Bioinformatics*.

### Conference Session Organizer/Chair

- 2025 *Joint Statistical Meetings* – Innovations in Biological Network Modeling: Unraveling Omics Data Analysis
- 2025 *Lifetime Data Science Conference* – Beyond Right-censoring: Unveiling New Insights with Interval-censored Data Models
- 2025 *Eastern North American Region, Spring meeting* – Innovative Strategies for Integrating Epidemiology and Biostatistics in Cervical Cancer Screening
- 2024 *Joint Statistical Meetings* – Recent advances in the analysis of multistate survival models
- 2024 *Eastern North American Region, Spring meeting* – Advances in Epidemiologic Methods
- 2023 *Symposium on Data Science & Statistics* – Methods in Health & Medical Research
- 2023 *Eastern North American Region, Spring meeting* – Clustered data methods



## Conference & Seminar Service

- Poster Judge for 2025 NIH Graduate Student Research Symposium
- Planning Committee Member for 2025, 2026 ENAR Fostering Excellence in Biostatistics Workshop
- Poster Judge for 2025 ENAR Spring Meeting's Student Poster Competition
- Judge for 2025 ASA Lifetime Data Science Section Student Paper Awards

## Other Service

- *Fellows' representative*, Biostatistics Branch, DCEG, NCI (Aug. 2025 - Present)
- *Secretary*, Association of African Quantitative Scientists (June 2025 - Present)
- *Member*, Student recruitment committee; Dept. of Biostatistics, UF (Nov. 2021 - Apr. 2023).
- *Vice President*, Biostatistics Students' Organization, UF (Sept. 2021 - Sept. 2022).
- *President*, Biostatistics Students' Organization, UF (Sept. 2022 - Apr. 2023).

## PROFESSIONAL MEMBERSHIPS

American Statistical Association  
Institute of Mathematical Statistics  
Eastern North American Region, International Biometric Society

## COMPUTER SKILLS

### General Software

- *Operating systems*. WINDOWS, LINUX and MACOS.
- *Productivity applications*. Advanced skills in WORD, EXCEL, and POWERPOINT.

### Computing & Programming

- Parallel Computing in selected scripting languages.
- Extensive experience with **R**/RStudio, **C++**, MATLAB, PYTHON/JUPYTER, UNIX,  $\text{\LaTeX}$ .
- Intermediate experience with SAS, STATA, SPSS.
- Version control: [GitHub](#) user @samuelanyaso

### Bioinformatics

- Extensive experience in building pipelines for pre-processing and analysis of large-scale sequencing data.
- Downstream analysis of -omics data.

## REFEREES

Available upon request.