Jake William Coldiron
Curriculum Vitae

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Jake William Coldiron is a director, statistician, and researcher specializing in the development and application of statistical models to complex datasets. He uses modeling, longitudinal data, and machine learning to uncover hidden structures, enhance predictive accuracy, and support data-driven decision-making. With a strong foundation in methodological development, applied research, and a wealth of real world experience, he balances executive leadership while directing large-scale studies and domain knowledge while conducting data analysis to advance statistical inquiry across a diverse set of domains. He manages a team of researchers, overseeing study design, data analysis, and information dissemination to ensure rigorous and impactful findings.

EDUCATION

Master of Science (MS) in Biostatistics
Columbia University, Mailman School of Public Health
New York, New York, United States of America
August 2023 - May 2025

Degree Highlights

- Developed Biostatistics Seminar Report and Presentations
- Lead Workshops on Scientific Computing and Data Analysis
- Collaborated with Industry and Academia via Statistical Consulting Service
- Contributed Scientific Manuscript, Proposals, and Books
- Participated in the Functional Data Analysis Working Group (FDAWG) and the Columbia Biostatistics Computing Club

Biostatistics Course Content

- Probability & Inference
- Data Science and Scientific Computing
- Biostatistical Methods
- Pharmaceutical Statistics
- Latent Variable and Structural Equation Modeling
- Longitudinal Data Analysis
- Survival Analysis and Time-to-Event Data
- Bayesian Data Analysis
- Design of Medical Experiments & Randomized Clinical Trials
- Causal Inference and Counterfactual Framework
- Machine Learning for Biomedical Research
- Computational Methods in Biostatistics
- Statistical and Human Population Genetics
- Advanced Regression Techniques (e.g., GLM, GEE, Mixed Models)

Public Health Course Content

- Fundamentals of Public Health
- Social and Behavioral Determinants of Health
- Health Promotion and Disease Prevention
- Community Health Assessment and Intervention Strategies
- Health Disparities and Equity
- Foundations of Complex Adaptive Systems in Health
- Systems Thinking and Agent-Based Models
- Network Theory and Disease Transmission
- Evolutionary and Ecological Models of Health
- Dynamic Systems and Feedback Loops in Epidemiology
- Socio-Behavioral Modeling and Health Interventions
- Adaptive Strategies for Health Policy and Decision-Making

Bachelor of Science (BS) in Public Health

Georgia State University, School of Public Health
Atlanta, Georgia, United States of America
August 2018 - December 2022

Degree Highlights

- Double Minor in Mathematics and Sociology
- Honors Distinction and Honors Laureate
- Founded Maternal and Child Health Association, American Mock Work Health Organization at Georgia State University (AMWHO-GSU), and Public Health International Students' Club
- Participated in Meet and Talk Series, Men in Public Health, Public Health Club, 25-to-Thrive Advanced Graduate Program, and Math and Stat Club
- Served on the School of Public Health's Academic Affairs Committee, Bachelor of Science in Public Heakth Academic Affairs sub-Committee, and CDC Museum Committee

Public Health Course Content

- Program Evaluation and Implementation
- Project Management and Research Coordination
- Intercultural Competency and Communication
- Health and Status of Specialized Groups (e.g., maternal and disabled health)
- Research Methods, Study Management, and Conduct of Trials
- Health Policy and Analysis
- Chronic and Infectious Diseases
- Epidemiology and Epidemiological Methods
- Biological, Environmental, and Social Determinants of Health
- Health Theories and Models

Mathematics Course Content

- Calculus I, II, and Multivariate
- Discrete Mathematics and Combinatorics
- Mathematical Statistics and Regression Methods I & II
- Mathematical Analysis
- Biostatistics I & II
- Linear Algebra and Optimization

Sociology Course Content

- Wealth, Power, and Inequality
- Sociological Research Methodology
- Sociology of Work and Occupations
- Statistical Methods for the Social Sciences
- Modern Social Issues

CERTIFICATES

Introduction to Corporate Finance
Columbia University
Expected: March 2025

- Learn key financial concepts for evaluating and valuing investment opportunities, including how to value stocks and bonds.

Risk and Return
Columbia University
Expected: March 2025

- Learn how to measure the risk and return of equity and debt; and compute the weighted average of cost of capital.

Free Cash Flow Analysis
Columbia University
Expected: March 2025

- Learn how to use the free cash flow method for firm valuation and how to compute and project free cash flows.

Advance Cardiac Life Support
American Heart Association
September 2022

- Developed skills in managing cardiac arrest, acute arrhythmias, stroke, and other life-threatening cardiovascular emergencies using advanced airway management, pharmacology, and team-based resuscitation protocols.

Basic Life Support
American Heart Association
June 2022

- Trained in high-quality CPR, AED use, and emergency response for cardiac and respiratory emergencies in adults, children, and infants.

Community Engaged Research
Collaborative Institutional Training Initiative
March 2020

- Gained expertise in ethical and effective collaboration with communities in research, including principles of participatory research, cultural competence, and stakeholder engagement.

Responsible Conduct of Research
Collaborative Institutional Training Initiative
March 2020

- Trained in research integrity, ethical data management, authorship, peer review, and responsible collaboration in scientific investigations.

Human Subjects Research
Collaborative Institutional Training Initiative
October 2019

- Acquired knowledge of ethical principles, informed consent, risk assessment, and regulatory requirements for conducting research involving human participants.

EMPLOYMENT

Research Director - *Executive Leadership and Lead Statistical Strategist*
Voices of Atrial Fibrillation Patients (VoAFP)
New York, New York, United States of America
December 2023 - Present

- Develop and execute the strategic plan for research, creating comprehensive project outlines and statistical analysis plans (SAPs) which further the organization's research objectives and ensures high-quality, patient-centered outcomes.
- Develop, implement, and supervise the execution of statistical analysis plans, ensuring appropriate model selection and reproducible results that adhere to academic standards.
- Establish data partnerships and transformation protocols by collaborating with key institutional stakeholders to secure clinical data access and develop robust methodologies to convert complex clinical records into actionable datasets.
- Integrate patient-reported data with structured clinical datasets, ensuring a holistic understanding of patient experiences and treatment effectiveness.
- Lead knowledge translation and capacity-building efforts by identifying training gaps among clinicians and providers, directing the development of targeted training materials to enhance patient-centered care and improve clinical outcomes.
- Represent the organization at conferences, policy discussions, and research forums to advocate for evidence-based approaches in atrial fibrillation care and patient engagement.
- Oversee research dissemination through scientific publications, white papers, and stakeholder reports, ensuring findings inform both policy and clinical practice.

Key Skills: Director-level Management, Research Projects, Research Management, Project Management, Partner Relationship Management

Poll Manager - *Legal Compliance, Regulatory Adherence, and Complex Administration*
Douglas County Board of Elections
Douglasville, Georgia, United States of America
September 2020 - August 2023

- Facilitated voting operations and ensured legal compliance by overseeing all polling site activities and implementing statutes, injunctions, and court orders prescribed by election officials, judges, and other government officials.
- Managed ballot security and accuracy from distribution and receipt through the vote-counting process, verifying ballot integrity, resolving discrepancies within legal guidelines, and ensuring a transparent vote count.
- Prepared and organized all required documentation, including voter registration updates, provisional ballot records, and incident logs, ensuring compliance with election laws.
- Maintained accurate audit trails by tracking and recording each step of ballot handling to ensure a verifiable chain of custody.
- Provided voter assistance and accessibility support, including offering bilingual guidance for Spanish-speaking voters, assisting first-time and special-case voters, and ensuring all individuals have the necessary resources to cast their ballots.
- Led and trained polling teams by coordinating a diverse group of poll workers, providing clear guidelines, conducting ongoing training sessions, and ensuring a smooth, efficient voting experience.

Key Skills: Election Law, Auditing, Regulatory Compliance, Public Speaking, Legal Document Preparation

Cardiac Monitor Technician - *Acute Cardiac Care and Telemetry Monitoring*
Wellstar Health System
Kennesaw, Georgia, United States of America
May 2022 – February 2023

- Conducted continuous remote telemetry monitoring, identifying cardiac dysrhythmias, arrhythmias, and life-threatening abnormalities such as atrial fibrillation and ventricular tachycardia.
- Assisted nurses and emergency staff with 12-lead EKGs, rhythm strip interpretation, and rapid cardiac assessments in high-acuity settings, including the ICU and emergency department.
- Responded to medical codes and rapid response alerts, effectively communicating critical findings to interdisciplinary teams to facilitate timely interventions.
- Maintained and calibrated telemetry equipment, ensuring compliance with infection control protocols and hospital safety standards for optimal patient care.
- Assisted in developing standardized documentation protocols for telemetry readings, ensuring consistency, accuracy, and ease of communication among healthcare providers.
- Participated in quality improvement initiatives, tracking telemetry accuracy, analyzing key performance indicators, and implementing workflow enhancements to improve patient outcomes.
- Educated patients and families on cardiac monitoring procedures, promoting awareness of arrhythmias and the importance of early detection in preventing adverse cardiac events.

Key Skills: Clinical Workflow, Acute Care, Infection Control, Advanced Cardiac Life Support (ACLS), Cardiac Monitoring

Research Assistant - *Mixed Methods Research*
Georgia State University, School of Public Health
Atlanta, Georgia, United States of America
August 2019 – December 2022

- Managed and maintained large-scale research databases, ensuring data integrity, security, and accessibility for analysis, reporting, and future study replication.
- Conducted structured and semi-structured interviews with key stakeholders and assisted in the design and refinement of questionnaires to enhance data collection quality and improve study validity.
- Performed advanced statistical analyses, including Multivariate Analysis of Variance (MANOVA) and Social Network Analysis (SNA), utilizing software such as Excel, SAS, R, NVivo, and UCINET to examine patterns and relationships.
- Authored and contributed to academic reports, presentations, and peer-reviewed manuscripts, ensuring clarity, methodological rigor, and relevance to public health research.
- Assisted in grant writing and research proposal development, synthesizing literature and preliminary findings to support funding applications and project justifications.

- Engaged in professional development by attending conferences and workshops, staying updated on emerging research methodologies, analytical techniques, and theoretical frameworks in public health.

Key Skills: Stakeholder Management, Database Management System (DBMS), Survey Design, Qualitative & Quantitative Research Methodologies, Grant Writing

Health Policy and Risk Management Specialist - *Shoe Leather Epidemiology and Crisis Communication*
Georgia State University, School of Public Health
Atlanta, Georgia, USA
August 2020 – December 2022

- Delivered community presentations on institutional COVID-19 response strategies, public health guidelines, and wellness initiatives, ensuring clear and effective communication.
- Designed and distributed digital and print media to educate students and faculty on COVID-19 prevention measures, ensuring accessibility across diverse populations.
- Coordinated multi-office collaboration among departments, streamlining communication and policy implementation related to COVID-19 protocols and emergency preparedness.
- Partnered with student and faculty organizations to assess and enhance the COVID-19 response, incorporating feedback from diverse stakeholders to improve campus-wide public health strategies.
- Assisted in developing emergency response protocols, contributing to preparedness strategies and ensuring alignment with CDC guidelines and state regulations.
- Led a social media campaign to disseminate real-time updates, engage with the campus community, and address COVID-related inquiries across various platforms, ensuring timely and transparent information sharing.

Key Skills: Health Education, Stakeholder Collaboration, Community Engagement, Scientific Communications, Program Coordination

Researcher - *Health Policy Research and Data Analysis*
Georgia Health Policy Center
Atlanta, Georgia, United States of America
February 2020 – January 2021

- Conducted structured phone interviews with participants ensuring data accuracy and consistency through meticulous call logs and standardized documentation practices.
- Performed comprehensive literature reviews by analyzing peer-reviewed studies, policy reports, and public health data to synthesize key findings into concise summaries that informed research initiatives and program evaluations.
- Developed and delivered research presentations to both academic and public audiences, effectively translating complex health policy findings into accessible insights for stakeholders, policymakers, and community members.
- Assisted in qualitative and quantitative data analysis, using structured coding techniques and statistical methods to extract insights and support policy recommendations.
- Provided administrative and research support, including transcription, data entry, formatting presentations, and assisting with ongoing health policy projects to ensure seamless workflow and project continuity.
- Managed clerical and logistical tasks such as document organization, scheduling meetings, preparing materials for stakeholder discussions, and coordinating events to facilitate smooth office operations.
- Collaborated with multidisciplinary teams, including public health professionals, researchers, and policymakers, to support data-driven decision-making in health policy initiatives.

Key Skills: Policy Analysis, Knowledge Translation, Report Writing, Program Evaluation, Interviewing

Office Administrator - *Administrative and Operational Support*
Boy Scouts of America
Blairsville, Georgia, United States of America
May 2018 – August 2018

- Assisted with the daily operations of the central office, supporting administrative tasks, coordinating logistics, and ensuring efficient workflow.
- Managed and operated primary and secondary social media accounts, developing content, engaging with the community, and promoting organizational initiatives.
- Maintained and organized information databases, processed membership records, and liaised with financial services to facilitate payments, reimbursements, and budget tracking.

- Served as a customer service representative, resolving technical and interpersonal challenges at both individual and group levels, ensuring smooth interactions among staff, volunteers, and participants.
- Assisted in overseeing employee operations, including scheduling, staff coordination, and quality of life initiatives to improve workplace morale and efficiency.
- Provided logistical support for events, training sessions, and program activities, ensuring seamless execution and adherence to organizational policies.
- Helped implement risk management procedures, ensuring compliance with health, safety, and emergency protocols.

Key Skills: Logistics Management, Office Administration, Customer Service, Program Management, Social Media Communications

INTERNSHIPS

Clinical Data Science Intern - *Advancing Federated Learning and Machine Learning*
DataUnite (DU)
San Francisco, California, USA
July 2024 - January 2025

- Applied biostatistical methodologies to evaluate drug efficacy and safety, analyze randomized controlled trial (RCT) data, and interpret regulatory and protocol-driven frameworks.
- Handled, cleaned, and analyzed healthcare datasets, including electronic health records (EHRs), patient registries, pathology, imaging, and clinical trial data, with a focus on longitudinal data analysis and predictive modeling.
- Utilized SQL for querying, joining, and managing relational databases, alongside Python for statistical computing, machine learning, and automation of data workflows.
- Developed data pipelines and implemented extract, transform, load (ETL) processes to integrate, harmonize, and efficiently process large-scale health datasets.
- Assisted in the development of federated learning and virtual pooling techniques to enhance secure, decentralized analysis of clinical and healthcare data.
- Validated the output of virtual pooling technologies to ensure accuracy, consistency, and reliability in distributed data aggregation and analysis.
- Created scientific presentations, technical reports, and data visualizations, including R Markdown reports and PowerPoint decks, to effectively communicate research findings to internal and external stakeholders.
- Wrote executive summaries, research briefs, and documentation to support pharmaceutical and scientific decision-making.
- Contributed to strategic discussions on clinical trial design, data-sharing agreements, and policy implementation to advance research and healthcare initiatives.
- Continuously learned and applied new tools and technologies including SQL, Python, JupyterLab, and Julia to enhance data analysis, visualization, and computational efficiency.

Key Skills: Machine Learning, Federated Learning, Healthcare Analytics, Data Visualization, Pharmaceutical Analysis

Partnership and Resource Mobilization Intern - *Global Health Development and Strategic Resource Mobilization*
Eastern Mediterranean Public Health Network (EMPHNET)
Amman, Amman Governorate, Jordan
July 2023 - December 2023

- Conducted in-depth research on potential partners, including NGOs, government agencies, private sector companies, and international organizations, then classified, sorted, and stored relevant information into a database.
- Organized and participated in meetings, workshops, and events with current and potential partners to build and maintain relationships, and to promote the organization's projects and initiatives.
- Assisted in the development of grant proposals and funding applications, including drafting sections, gathering necessary documentation, and ensuring compliance with donor requirements.
- Maintained databases and records of partnerships, funding opportunities, and donor communications to track and analyze funding trends and opportunities in the Middle East and North African (MENA) region.
- Prepared reports, presentations, and communication such as regional reports, outreach material, and newsletters to showcase the impact of the organization's work to donors and partners.

Key Skills: Partner Relationship Management, Strategic Partnerships, Proposal Management, Global Health, Governmental & Non-Governmental Organizations (NGOs)

Hospitalist Intern - *Clinical Operations and Interdisciplinary Healthcare Coordination*

Tanner Health System
Villa Rica, Georgia, USA
August 2017 – September 2018

- Gained hands-on experience in the daily operations of a hospital, observing workflow efficiencies, patient care coordination, and the integration of clinical and administrative departments to ensure seamless healthcare delivery.
- Engaged directly with patients at various stages of treatment, developing strong interpersonal and communication skills to navigate sensitive conversations and provide empathetic patient interactions in diverse medical settings.
- Collaborated with physicians, nurses, and allied healthcare professionals, gaining insight into multidisciplinary teamwork, the roles of different medical specializations, and the importance of interdepartmental coordination in acute and chronic care management.
- Assisted laboratory technicians and pharmacists, understanding the pivotal role of diagnostic testing, medication management, and pharmaceutical care in supporting patient outcomes and interdisciplinary collaboration within a hospital ecosystem.
- Observed financial services and hospital administration, learning about health insurance processing, medical billing, revenue cycle management, and clerical operations, with a focus on optimizing healthcare accessibility and financial sustainability.

Key Skills: Healthcare Management, Healthcare Operations, Clinical Supervision, Collaborative Problem Solving, Clinical Workflow

SOFTWARE & TOOLS

Statistics and Data Science

- R: Proficient
- SAS: Intermediate
- Python: Intermediate
- Julia: Beginner
- QGIS: Beginner

Database Management

- SQL: Intermediate
- REDCap: Intermediate

Qualitative Research

- NVivo: Proficient
- Covidence: Beginner
- Rayyan.ai: Beginner
- Endnote: Intermediate
- Zotero: Intermediate

Productivity and Work Management

- Monday.com: Proficient
- Omnifocus: Proficient
- Slack: Proficient
- Microsoft 365 (née Microsoft Office Suite): Proficient
- Apple iWork: Proficient
- Google Workspace: Proficient
- Zoho Suite: Intermediate
- LaTeX (Overleaf and TeXstudio): Intermediate

Virtual Collaboration

- WebEx: Proficient
- Zoom: Proficient
- MS Teams: Proficient

RESEARCH & PUBLICATIONS

Publications

Individual and Community Level Factors Related to Contraceptive Access, Family Planning, and Reproductive Health Challenges Among Women in Kumasi, Ghana: A Field Study
International Journal of Translational Medical Research and Public Health
February 2022

- This field study investigates contraceptive access, family planning, and reproductive health challenges among women in Kumasi, Ghana, using a cross-sectional, mixed-methods survey administered by an in-country partner at Suntreso Government Hospital over four weeks, where 100 women of reproductive age participated through face-to-face electronic data collection in Twi and English via Qualtrics, revealing trends within family planning knowledge where to access birth control, sociocultural barriers and misinformation hindered usage, contrasting with the US where financial barriers, rather than willingness, limited contraceptive uptake, highlighting the need for culturally sensitive interventions and improved reproductive health education in Ghana.

  APA Citation: Gibson, L., Dua, A., **Coldiron, J.**, Edwards, A., Lamsal, S., Edeh, E., Masha, D., & Armstrong-Mensah, E. (2022). Individual and Community Level Factors Related to Contraceptive Access, Family Planning, And Reproductive Health Challenges Among Women In Kumasi, Ghana: A Field Study. *International Journal of Translational Medical Research and Public Health*, 6(1), https://doi.org/10.21106/ijma.523

Genital Chlamydia Trachomatis Infection: Prevalence, Risk Factors and Adverse Pregnancy and Birth Outcomes in Children and Women in sub-Saharan Africa
International Journal of Maternal and Child Health and AIDS
December 2021

- This manuscript examines the prevalence, risk factors, and adverse pregnancy and birth outcomes of genital Chlamydia trachomatis infection among women and children in sub-Saharan Africa, highlighting its high prevalence due to factors like unprotected sex, multiple partners, and low education levels, its severe consequences including miscarriage, preterm birth, and neonatal pneumonia, and the challenges in mitigating its spread due to cultural practices, illiteracy, and limited screening, ultimately advocating for increased education, policy changes, and improved healthcare access to reduce transmission and improve maternal and child health outcomes.

  APA Citation: Armstrong-Mensah, E. A., Ebiringa, D.-P. ., Whitfield, K., & **Coldiron, J.** (2021). Genital Chlamydia Trachomatis Infection: Prevalence, Risk Factors and Adverse Pregnancy and Birth Outcomes in Children and Women in sub-Saharan Africa. *International Journal of Maternal and Child Health and AIDS (IJMA)*, 10(2), 251–257. https://doi.org/10.21106/ijma.523

Manuscripts in Preparation

A Trauma-Informed, Mindfulness-Based Yoga Intervention with Justice-Involved Youth: A Mixed Methods Feasibility Trial

  APA Citation: Owen-Smith, A., Cotner, M., Bradfield, H., **Coldiron, J.**, Karim, M., Malone, M., DeBar, L., Ford, J., DiClemente, R., Hayat, M., Emerson, D., Jackson, D., Black, H., Lewinger, V., Reiser, A., Elmore-Moore, I., Coles, G. (In preparation). A trauma-informed, mindfulness-based yoga intervention with justice-involved youth: A mixed methods feasibility trial.

CONFERENCE ACTIVITY

Presentations

Quantitative Analysis of Women's Health Trends in Ghana
Troy MathFest
Tory, Alabama, United States of America
9 April 2022

- Presented the mathematical methods of greater data exploration for the Ghanaian women's health data collected in 2021.

  APA Citation: **Coldiron, J.** (2022, April 9). *Quantitative Analysis of Women's Health Trends in Ghana* [Conference presentation]. Troy MathFest, Troy, AL.

Posters

Genital Chlamydia Trachomatis Infection: Prevalence, Risk Factors and Adverse Pregnancy and Birth Outcomes in Children and Women in sub-Saharan Africa
Georgia State University Public Health Conference
Atlanta, Georgia, United States of America
16 February 2023

- Presented findings regarding the distribution and risk factors and their effect on pregnancy for genital Chlamydia Trachomatis infection in sub-Saharan Africa.

    APA Citation: **Coldiron, J.** (2023, February 16) *Genital Chlamydia Trachomatis Infection: Prevalence, Risk Factors and Adverse Pregnancy and Birth Outcomes in Children and Women in sub-Saharan Africa* [Conference presentation]. Georgia State University Public Health Conference, Atlanta, GA.

Understanding Department of Juvenile Justice Stakeholder's Attitudes Towards a Yoga Intervention for Detained Youth with a History of Trauma
American Public Health Association Annual Conference and Expo
Boston, Massachusetts, United States of America
5 November 2022

- Presented a section of the research foucsing on a qualitative analysis of stakeholder attitudes towards the implemented yoga program as part of the NIH R34 mechanism.

    APA Citation: **Coldiron, J.** (2022, November 8) *Understanding Department of Juvenile Justice Stakeholder's Attitudes Towards a Yoga Intervention for Detained Youth with a History of Trauma* [Conference presentation]. American Public Health Association Annual Conference and Expo, Boston, MA.

INVITED TALKS

Lessons Learned From Leveraging Peer-to-Peer Networks in Universities to Fight the Pandemic
Frontier Set
Seattle, Washington, USA
10 June 2021

- Engaged with stakeholders, funding organizations, and academic leaders to discuss the innovative strategies employed by the Georgia State University School of Public Health in utilizing student-led peer-to-peer networks to enhance public health interventions and pandemic response.

    Note: The Frontier Set is an institutional partner of the Bill & Melinda Gates Foundation which consist of a select group of high-performing, high-potential colleges and universities committed to dramatically increasing student success and erasing attainment gaps by transforming how they operate. https://frontierset.org/

UNIVERSITY & DEPARTMENTAL TALKS

Biostatistical and Departmental Information
Columbia University
New York, New York, USA
28 February 2025

- Provided an overview of biostatistic resources, departmental structure, and key academic and research opportunities available to students and faculty in the Columbia University Biostatistics Department.

Practicum Information
Columbia University
New York, New York, USA
24 February 2025

- Discussed practicum requirements, available opportunities, and strategies for securing placements, with insights on maximizing professional and academic growth through experiential learning in scientific research and biostatistics.

Geographical Information Systems
Columbia University
New York, New York, USA
26 April 2024

- Gave a presentation to graduate students outlining the fundamentals of geographical information systems (GIS), discussed various tools to conduct GIS, and demonstrated common skills and tests with R.

From Panic to Published
Georgia State University
Atlanta, Georgia, USA
5 February 2022

- Presented a full overview of the research process, from idea to published manuscript.

Run, Hide, Fight: Active Incident Training
Georgia State University
Atlanta, Georgia, USA
3 March 2021

- Delivered a presentation with the Office of Student Safety on that informed students and faculty on the proper safety protocols in the event of a serious incident.

What the Health! The Scary Effects of Climate Change
Emory University
Decatur, Georgia, USA
29 October 2019

- Gave a talk and led a subsequent discussion on the "scary" effects of climate change on human health.

MULTIMEDIA

How Students Can Protect Themselves: COVID-19 Info Module
Georgia State University School of Public Health
Atlanta, Georgia, USA
21 September 2020
https://www.youtube.com/watch?v=WFmyGFaIESc

- In collaboration with the Georgia State University Campus of Care Committee, Ambassadors developed three educational videos, including "How Students Can Protect Themselves," which equips students with essential safety strategies, risk assessment techniques, situational awareness, and available university resources.

ACADEMIC SERVICE

Mailman School of Public Health and Biostatistics Department Representative
Columbia University
New York, New York, USA
2023 - 2025

- Deliver departmental and school-wide presentations on biostatistical methods, research applications, and emerging trends in quantitative public health research.
- Lead interactive workshops on advanced statistical techniques, including survival analysis, causal inference, longitudinal modeling, and high-dimensional data analysis.
- Engage students and faculty in discussions on interdisciplinary applications of biostatistics, bridging methodological innovations with public health policy and practice.
- Provide career development talks, guiding students on industry opportunities, research pathways, and best practices for biostatistical consulting and collaboration.
- Present on computational tools and programming best practices, emphasizing reproducible research, data visualization, and efficient workflow management in R, Python, and SQL.

- Contribute to professional development initiatives by mentoring students, facilitating journal clubs, and organizing panel discussions with biostatistics faculty and guest speakers.

Academic Affairs Council
Georgia State University
Atlanta, Georgia, USA
2020 - 2022

- Served as a student representative, advocating for academic policy reforms and curriculum improvements to enhance the student experience.
- Engaged in discussions with university faculty and administration on institutional policies, academic standards, and student affairs.
- Contributed to the evaluation and implementation of new educational programs, ensuring alignment with student needs and faculty goals.
- Reviewed and provided feedback on university-wide academic initiatives, including faculty hiring, course development, and student support services.
- Organized student forums to gather feedback on academic policies, facilitating communication between students, faculty, and university leadership.

Council on Education for Public Health (CEPH) Representative
Georgia State University
Atlanta, Georgia, USA
2021 - 2022

- Represented the student body in the accreditation process for the School of Public Health, providing insights into academic quality and program effectiveness.
- Participated in site visits, meetings, and evaluations to ensure compliance with CEPH accreditation standards.
- Reviewed and contributed to reports on curriculum design, faculty qualifications, and student outcomes for accreditation documentation.
- Engaged in discussions with faculty, administrators, and external reviewers to advocate for improvements in public health education.
- Assisted in gathering and analyzing student feedback to support the accreditation review process, ensuring a student-centered approach to program development.

Dean Search Committee
Georgia State University
Atlanta, Georgia, USA
2021 - 2022

- Served as a student representative on the university's Dean Search Committee, contributing to the selection of candidates for a key leadership position.
- Participated in the evaluation of applicants, reviewing credentials, research achievements, and administrative experience to assess alignment with the university's mission.
- Conducted interviews and engaged in discussions with candidates, providing insights on student priorities and academic leadership needs.
- Assisted in gathering faculty and student input to ensure a transparent and inclusive selection process.
- Worked alongside university administrators and faculty to develop criteria for assessing leadership, strategic vision, and institutional fit in the dean selection process.

AWARDS & HONORS

MeTa Series Champion
2022
Georgia State University, School of Public Health

- In recognition to the service and promotion of public health at Georgia State University.

Outstanding Student of Public Health
2021
Georgia State University, School of Public Health

- In recognition of academic achievement during the course of the public health program.

VOLUNTEERING

Riverside Park Conservancy
New York, New York, USA
2023 - 2025
https://riversideparknyc.org

- Maintain the northern section of Riverside Park by gardening green spaces, repairing facilities, cleaning sports plazas, and picking up trash.
- Assist with seasonal landscaping projects, including planting flowers, mulching, and pruning trees to enhance park aesthetics.
- Support community engagement efforts by coordinating volunteer activities and educating visitors on park conservation initiatives.

Billion Oyster Project
New York, New York, USA
2023 - 2025
https://www.billionoysterproject.org/

- Collect samples and perform water quality testing at various locations in the Hudson River in northern Manhattan.
- Monitor oyster growth and habitat conditions, contributing to ecological restoration efforts to improve New York Harbor's water quality.
- Work with lab staff to analyze water samples, interpret test results, and document findings to assess pollution levels and inform environmental conservation strategies.

International Education Peace Volunteers
Atlanta, Georgia, USA
2022 - 2023
https://www.peacevolunteers.ngo/

- Organized and facilitated one-on-one conversations between individuals of different cultures.
- Developed cultural exchange programs to foster mutual understanding and global awareness among diverse communities.
- Conducted workshops and training sessions on conflict resolution, intercultural communication, and peace-building strategies.

Fathers Matter ATL
Atlanta, Georgia, USA
2020 - 2022
https://www.fathersmatteratl.com

- Assisted in leading the "Reclaiming the Narrative" team, working to amplify the voices of fathers and promote positive fatherhood representation in media and policy discussions.
- Developed and managed social media content to engage the community, increase outreach, and highlight impactful stories of fatherhood and family support.
- Collaborated with partners to strengthen advocacy efforts, coordinate events, and expand access to resources for fathers and families.

Emory Morningside Global Health Case Competition
Decatur, Georgia, USA
13 March 2022
https://globalhealth.emory.edu/programs/case-competitions/international/index.html

- Served as a room judge and applied my expertise in biostatistics and public health research to critically assess student presentations, evaluating the rigor of their statistical analyses, the validity of their data-driven arguments, and the feasibility of their proposed global health interventions.
- Collaborated with organizers to ensure a structured and efficient evaluation process, helping coordinate judging criteria, time management, and procedural adherence to maintain fairness and consistency across presentations.
- Facilitated a professional competition environment by ensuring constructive deliberations, and providing clear, objective feedback to teams while maintaining integrity to standards of the competition.

Boy Scouts of America
Atlanta, Georgia, USA
2018 - 2023
https://www.indianspringsbsa.org/

- Trained adults in outdoor skills such as hiking, backpacking, gear selection, group games, knots, and more and how to teach these skills to the scouts of their own home troop, pack, or district.
- Led youth in high-adventure outdoor activities, leadership development programs, and team-building exercises to promote personal growth and self-reliance.
- Assisted in planning and organizing large-scale scouting events, including summer camps, survival challenges, and community service projects.

PROFESSIONAL MEMBERSHIPS

Rail Passengers Association
Member
https://www.railpassengers.org

- The Rail Passengers Association is the largest national organization that serves as a voice for the more than 40 million rail passengers in the US.

American Public Health Association (APHA)
Early Career Professional
https://www.apha.org/

- APHA champions the health of all people and all communities. We are the only organization that combines a nearly 150-year perspective, a broad-based member community and the ability to influence policy to improve the public's health.

Council of State and Territorial Epidemiologist (CSTE)
Student Member
https://www.cste.org/

- The Council of State and Territorial Epidemiologists is a 501c non-profit organization originally organized in 1955, founded in 1992, and based in Atlanta, Georgia. CSTE works to advance public health policy and workforce capacity for applied public health epidemiologists in all localities, states, and territories in the United States.

American Statistical Association (ASA)
Student Member
https://www.amstat.org

- The American Statistical Association is the world's largest community of statisticians, the "Big Tent for Statistics." It is the second-oldest, continuously operating professional association in the country. Since it was founded in Boston in 1839, the ASA has supported excellence in the development, application, and dissemination of statistical science through the following: meetings, member service, education, publications, advocacy, and accreditation. Our members serve in industry, government, and academia in more than 90 countries, advancing research and promoting sound statistical practice to inform public policy and improve human welfare.

World Affairs Council (WAC) of Atlanta
Young Leader
https://www.wacatlanta.org/

- The World Affairs Council of Atlanta is a non-partisan, membership and grant-supported organization. Its mission is to provide a forum for informed discussion of the global affairs that impact Metro Atlanta and support the city's transformation into an international economic hub.