

Jake William Coldiron

Curriculum Vitae

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Jake William Coldiron is a burgeoning health professional and syndicated scientist whose work spans a myriad of domains. All of his many experiences and education directly support his efforts towards enhancing health research, clinical care, and an equitable health-for-all framework. His biostatistical area of interest is spatial interpolation and latent classes analysis, and his public health interest are perinatal transmission of disease and chronic infectious diseases. His regional area of interest in Middle East and North Africa (MENA), as well as the countries of the former Soviet Union (FSU) due to their health and economic alignment with the aforementioned interest.

EDUCATION

Master of Science (MS) in Biostatistics

Columbia University, Mailman School of Public Health
New York, New York, USA
August 2023 - May 2025

Public Health Course Content:

- Introduction to Public Health
- Principles of Epidemiology

Biostatistic Course Content:

- Probability & Inference
- Data Science
- Biostatistical Methods
- Pharmaceutical Statistics
- Latent Variable and Structural Equation Modeling
- Longitudinal Data Analysis
- Design of Medical Experiments & Randomized Clinical Trials
- Consulting Seminar

Bachelor of Science (BS) in Public Health

Georgia State University, School of Public Health
Atlanta, Georgia, USA
August 2018 - December 2022

Program Highlight

- Completed a Double Minor in Mathematics and Sociology
- Achieved Honors Distinction and Honors Laureate
- Founded Maternal and Child Health Association (MCHA), American Mock Work Health Organization at Georgia State University (AMWHO-GSU), and Public Health International Students' Club (PHISC)

Public Health Course Content:

- Program Evaluation and Implementation
- Intercultural Competency and Communication
- Health and Status of Specialized Groups (e.g., maternal and disabled health)
- Research Methods
- Health Policy and Analysis
- Chronic and Infectious Diseases
- Fundamentals of Epidemiology and Statistical Analysis
- Biological and Social Determinants of Health
- Health Theories and Models

Mathematics Course Content:

- Calculus I, II, and Multivariate
- Discrete Mathematics and Combinatorics
- Statistical Methods and Regression
- Proofs and Analysis
- Biostatistics
- Linear Algebra

Sociology Course Content:

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

EMPLOYMENT

Poll Manager

Douglas County Board of Elections (BOE)

Douglasville, Georgia, USA

September 2020 - August 2023

- Worked with English-limited and Spanish-only voters and helps them navigate the voting process in their preferred language
- Worked with a wide array and diverse group of individuals navigate the voting process
- Managed a team of individual to ensure a quick and timely voting experience, and continually improves upon best practices within the bounds of the law
- Navigated local and state laws and regulations regarding voting and vote counting
- Assisted first-time and special case voters cast provisional ballots to ensure that their vote is counted

Cardiac Monitor Technician

Wellstar Health System

Kennesaw, Georgia, USA

May 2022 – February 2023

- Performed direct and remote cardiac telemetry and identified possible cardiac dysrhythmias
- Assisted nursing staff with 12-lead EKGs
- Worked along emergency department staff in crisis situations or medical code
- Maintained, prepared, and cleaned equipment for use in a sterile environment
- Participated in hospital evaluation and improvement to assess key performance indicators and identify areas of improvement

University Research Assistant

Georgia State University, School of Public Health

Atlanta, Georgia, USA

August 2019 – December 2022

- Collaborated in diverse environments to coordinate and strengthen research effort
- Conducted interviews with persons of interest and assists in the development of questions and questionnaires
- Maintained and manages information databases
- Conducted tests such as Multivariate Analysis of Variance (MANOVA) and Social Network Analysis (SNA) to observe statistical and cooperative relationships through programs such as Excel, SAS, Nvivo, R, and Unicef
- Attended related conferences and workshops for greater insight into new research methodologies and models

Student Emergency Response Ambassador

Georgia State University, School of Public Health

Atlanta, Georgia, USA

August 2020 – December 2022

- Gave talks to the Georgia State community about the university's response and general wellness guidelines
- Developed digital and physical media to inform individuals about COVID and COVID prevention measures, and constructs traditional media to post throughout GSU's campuses
- Facilitated multi-office collaboration between many GSU offices
- Collaborated with other student and faculty organizations to determine the best course of action regarding GSU's COVID response
- Conducted a social media campaign to inform users of various platforms about COVID and answer questions in real time

Research Student Assistant

Georgia State University, School of Public Health

Atlanta, Georgia, USA

February 2020 – January 2021

- Conducted phone interviews utilizing a structured interview protocol with program participants from multiple programs and populations, and maintains call logs
- Conducted literature searches and composes summaries of materials reviewed
- Presented research and findings to the general public
- Supported staff through transcription, updating and formatting presentations, data entry, and research projects
- Performed general clerical duties such as filing, printing, copying, faxing, and managing meetings and events

Administrative Assistant

Boy Scouts of America, Atlanta Area Council

Blairsville, Georgia, USA

May 2018 – August 2018

- Assisted with the daily operations of the office of the Boy Scouts of America at Woodruff Scout Camp
- Operated the primary and tertiary social media accounts for the Boy Scouts of America at Woodruff Scout Camp
- Maintained and managed information databases and communicated with financial services at Woodruff Scout Camp
- Worked as a customer service representative to solve technical and interpersonal problems on both an individual and group level at Woodruff Scout Camp
- Assisted in managing employee operations and quality of life at Woodruff Scout Camp

INTERNSHIPS

Biostatistics and Research Intern

Voices of Atrial Fibrillation Patients (VoAFP)

New York, New York, USA

May 2024 - Present

- Working as the primary statistical researcher, work with the team to develop a statistical analysis plan to fit the research goals
- Set out a plan for quantitative data analysis focusing on regressions and survival analysis based on structure clinical data within clinical records
- Generated a plan for qualitative data analysis on in-depth interviews, and developing the protocol and questionnaire for the in-depth interviews with patients
- Collaborating with relevant institutions to obtain access clinical data, and developing a methodology to transform the noise of clinical records into actionable data
- Using the identified gaps, develop training material for clinicians and providers to improve patient outcomes

Partnership and Resource Mobilization (PRM) Intern

Eastern Mediterranean Public Health Network (EMPHNET)

Remote, Amman Governorate, Jordan

July 2023 - September 2023

- Conducted in-depth research on potential partners, including NGOs, government agencies, private sector companies, and international organizations and 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. Tracked and analyze funding trends and opportunities in the MENA region
- Prepare reports, presentations, and communication materials to showcase the impact of the organization's work to donors and partners. Assist in the creation of newsletters, social media content, and other outreach materials

Hospitalist Intern

Tanner Health System

Villa Rica, Georgia, USA

August 2017 – September 2018

- Learned the daily operations of a hospital and saw how various departments function and operate
- Worked with patients at appropriate times and learned how to interact with people in various stages in sickness and illness
- Worked with doctors and nurses when appropriate and learned how the various specializations of each work in a hospital setting, both as individuals and as teams
- Worked with lab and pharmacy specialist and learned how both groups worked with other groups and served the various departments
- Worked with financial services and clerical operations and learned how different types of insurance and payments were handled

TEACHING EXPERIENCE

Introduction to Epidemiology

Columbia University, Mailman School of Public Health
New York, New York, USA
Fall 2024

Teach foundational concepts to Epidemiology in a seminar setting. Work closely with students by reviewing key concepts and directly applying lessons learned to problems in class.

RESEARCH & PUBLICATIONS

Publications

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
5 November 2022

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>

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
5 November 2022

APA Citation: Gibson, L. ., Dua, A. A., **Coldiron, J.** ., Peters, A. ., Lamsal, S. ., Edeh, G.-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/ijtmrph.393>

Manuscripts in Preparation

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

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

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, USA
5 November 2022

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

APA Citation: **Coldiron, J.** Understanding Department of Juvenile Justice Stakeholder's Attitudes Towards a Yoga Intervention

for Detained Youth with a History of Trauma. Presented, American Public Health Association Annual Conference and Expo, Boston, United States of America, November 2022.

INVITED TALKS

Lessons Learned From Leveraging Peer-to-Peer Networks in Universities to Fight the Pandemic

Frontier Set
Seattle, Washington, USA
10 June 2021

Discussed with stake holders and funding organizations the techniques used by Georgia State University and the School of Public Health how students and student networks were used

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/>

CAMPUS TALKS

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 and ArcGIS.

From Panic to Published

Georgia State University
Atlanta, Georgia, USA
5 February 2022

Presented a full overview of the research process starting from interest to manuscript preparation.

Run, Hide, Fight: Active Shooter Training

Georgia State University
Atlanta, Georgia, USA
3 March 2021

Helped deliver 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.

ACADEMIC SERVICE

Academic Affairs Council

Georgia State University
Atlanta, Georgia, USA
2020 - 2022

Maecenas ultricies augue a turpis viverra iaculis. Fusce a lorem est. Phasellus a metus dignissim, commodo eros eget, tempor ipsum. Pellentesque vel posuere ante, vitae dignissim ligula. Maecenas maximus lorem orci, ac semper sapien maximus et.

Council on Education for Public Health (CEPH) Representative

Georgia State University
Atlanta, Georgia, USA
2021 - 2022

Maecenas ultricies augue a turpis viverra iaculis. Fusce a lorem est. Phasellus a metus dignissim, commodo eros eget, tempor ipsum. Pellentesque vel posuere ante, vitae dignissim ligula. Maecenas maximus lorem orci, ac semper sapien maximus et.

Journal Manuscript Review

Georgia State University
Atlanta, Georgia, USA
2021 - 2022

Maecenas ultricies augue a turpis viverra iaculis. Fusce a lorem est. Phasellus a metus dignissim, commodo eros eget, tempor ipsum. Pellentesque vel posuere ante, vitae dignissim ligula. Maecenas maximus lorem orci, ac semper sapien maximus et.

Dean Search Committee

Georgia State University
Atlanta, Georgia, USA
2021 - 2022

Maecenas ultricies augue a turpis viverra iaculis. Fusce a lorem est. Phasellus a metus dignissim, commodo eros eget, tempor ipsum. Pellentesque vel posuere ante, vitae dignissim ligula. Maecenas maximus lorem orci, ac semper sapien maximus et.

AWARDS AND HONORS

MeTa Series Champion

Year: 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

Year: 2021

Georgia State University, School of Public Health

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

PROFESSIONAL MEMBERSHIPS

American Public Health Association (APHA)

Early Career Professional

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.

<https://www.apha.org/>

Council of State and Territorial Epidemiologist (CSTE)

Student Member

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.

<https://www.cste.org/>

American Statistical Association (ASA)

Student Member

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.

<https://www.amstat.org>

World Affairs Council (WAC) of Atlanta

Young Leader

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.

<https://www.wacatlanta.org/>

Alif Institute

Student Member

Alif Institute is a non-profit organization that promotes awareness about the Arab Middle east. It engages in broad community efforts and offers cultural events and Arabic classes.

<https://www.alifinstitute.org>

VOLUNTEERING

Riverside Park Conservancy

Maintain the northern section of Riverside Park by gardening green spaces, repairing facilities, cleaning sports plazas, and picking up trash.

<https://riversideparknyc.org>

Billion Oyster Project

Collect samples and perform water quality testing at various locations in the Hudson River in northern Manhattan.

<https://www.billionoysterproject.org/>

Mailman School of Public Health

Serve as a student representative and represent the school for visitors and guest and provide copius amounts of information regarding the academic and organizational structure of the medical center.

<https://www.publichealth.columbia.edu/academics/office-education/student-affairs>

International Education Peace Volunteers

Organize and facilitate one-on-one conversations between individuals of different cultures.

<https://www.peacevolunteers.ngo/>

Boy Scouts of America

Train 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.

<https://www.indianspringsbsa.org/>