

KALEB J. FRIERSON

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Auburn, NY

EDUCATION

MD	Doctor of Medicine The Norton College of Medicine, SUNY Upstate Medical University	Current
MPH	Master of Public Health in Epidemiology Columbia University Mailman School of Public Health	May 2025
AC	Advanced Certificate in Applied Biostatistics & Data Science Columbia University Mailman School of Public Health	May 2025
BS	Bachelor of Science in Biology, Minor in Chemistry The State University of New York at Cortland	May 2023

PROFESSIONAL EXPERIENCE

New York State Department of Health

May 2024 – December 2024

Student Assistant | Data and Analytics Branch, Division of State Emergency Medical Services

Responsible for data handling and analysis across various projects required by the Department of Health. Developed statewide educational resources for appropriate documentation of healthcare treatment metrics by prehospital clinicians, attended regional and statewide meetings, and collaborated across divisions and agencies to complete data infrastructure projects.

Skaneateles & Marcellus Ambulance

February 2020 – August 2023

Advanced EMT | Critical Care Research & Development Team

Performed clinical responsibilities associated with the Advanced EMT role while also developing and maintaining the integrity of the prehospital critical care program. Duties included grant applications, policy and program development, and facilitation of continuing medical education.

TLC Emergency Medical Services Inc.

August 2019 – March 2023

Advanced EMT | Field Training Officer | Clinical Preceptor

Responded to emergency calls for medical attention. Assessed patients to determine accurate field diagnoses and rule out differentials using physical exam techniques and diagnostic tools. Administered appropriate treatments per the most accepted medical practice and approved protocols. Educated and mentored students and new employees in a clinical setting.

RESEARCH EXPERIENCE

Columbia University Mailman School of Public Health, Department of Epidemiology

Fall Semester, 2024 – Spring Semester 2025 | Advised by Dr. Zachary Mannes

MPH Thesis Student – Characterizing Disparities in Prehospital Care Among Older Adults

Designed and conducted an epidemiologic analysis of NYS EMS data to investigate disparities in prehospital care among older adults. Applied multivariable regression modeling to evaluate the role of social determinants in EMS utilization and care outcomes and aimed to inform equitable emergency response for aging and at-risk populations.

The State University of New York at Cortland, Department of Biological Sciences

Spring Semester 2020 – Spring Semester 2023 | Advised by Dr. Andrea Dávalos

Undergraduate Research Fellow – Invasive Species Ecology

Collaborated in the design and conduct of a field research study that sought to quantify the individual and cumulative effects of multiple ecological stressors on the biodiversity of forest floor invertebrates.

SELECTED PUBLICATIONS & RESEARCH PRESENTATIONS

Frierson, K., Burnett, S., Carlile, J., & Mannes, Z. (2025). *Place-based Social Vulnerability is Associated with transport outcomes among older adults*. In preparation for Prehospital Emergency Care.

Frierson, K., Carlile, J., & Dávalos, A. (2025). *Ecological stressors are associated with soil biodiversity in North American forests*. In preparation for North American Naturalist.

Frierson, K. 2023, *New York Should Classify Emergency Medical Services as Essential*, Guest Editorial, The Post-Standard, Syracuse, NY

Frierson, K., Carlile, J., & Dávalos, A. October 2022. *Ecological stressors are associated with soil biodiversity in North American forests*: Student Conference on Conservation Science, NY.

Frierson, K., Carlile, J., & Dávalos, A. April 2022. *Individual and Combined Effects of Ecological Stressors on Soil Biodiversity*, SUNY Cortland Transformations Conference

INVITED TALKS

How Epidemiology Can Inform Clinicians

New York State Vital Signs EMS Conference | November 15, 2025

Presented an overview of prehospital disparities affecting older adult patients, highlighting how epidemiologic methods can identify risk factors, care gaps, and social determinants that impact EMS outcomes. Emphasized actionable strategies for EMS providers to improve care quality and equity through data-informed practice.

Anaphylaxis: Pathophysiology and BLS Management

NYS Department of Health – Division of State EMS Online CME Program | June 24, 2025

Provided a clinical and epidemiologic review of anaphylaxis recognition and management, emphasizing the pathophysiology, BLS treatment protocols, and prehospital decision-making.

Injury Epidemiology: The 4 Ws of Prehospital Injuries

NYS Department of Health – Division of State EMS Online CME Program | May 27, 2025

Presented an overview of injury epidemiology, focusing on who, what, when, and where injuries occur in prehospital settings, with implications for EMS surveillance, prevention, and policy.

Respiratory Distress: Pathophysiology and BLS Management

NYS Department of Health – Division of State EMS Online CME Program | April 29, 2025

Delivered a statewide continuing education lecture on the physiologic mechanisms of respiratory distress and evidence-based BLS management strategies for EMS clinicians.

TECHNICAL SKILLS

Programming & Analysis: R, Stata, SAS

Laboratory Techniques: PCR, DNA extraction, molecular biology assays

Tools: Microsoft Office, database management

HONORS AND FELLOWSHIPS

Director's Citation

December 2024

For recognition of commitment to advancing EMS as a member of the Data & Informatics Unit at the New York State Department of Health, Division of State Emergency Medical Services.

Excellence in Leadership Award

May 2023

Awarded to a SUNY Cortland community leader who demonstrates exemplary leadership abilities while serving in a leadership position. This award was associated with work with SUNY Cortland EMS.

Outstanding Student Leader Award

May 2023

Awarded to SUNY Cortland students who demonstrate leadership in campus activities.

Dr. Timothy J. Baroni Scholarship in Biology

August 2022

This scholarship was established to support dedicated students in the field of biology. Recipients will be undergraduate biological sciences majors with a cumulative GPA greater than 2.80.

Undergraduate Research Council: Summer Research Fellowship

May 2022

Funding award to an undergraduate researcher for eight weeks of dedicated inquiry.

Outstanding Undergraduate Research in Biological Sciences

May 2022

Awarded to an undergraduate student in Biological Sciences for exceptional independent research that resulted in a presentation or publication.

PROFESSIONAL CERTIFICATIONS AND MEMBERSHIPS

Advanced EMT: *New York State Department of Health*
Instructor: *American Heart Association – Basic Life Support*
Student Member: *American Society for Virology*
Member: *American Public Health Association*
Member: *American Association for the Advancement of Science*
Member: *Delta Omega Honorary Society of Public Health*
Alumni: *Beta Beta Beta Biological Honor Society*

LEADERSHIP & SERVICE

SUNY Cortland Emergency Medical Services

Fall Semester, 2022 – Spring Semester, 2023

President, Department Chief

Supported and directed both the executive and operational teams in the management of the agency.

Fall Semester, 2021 – Spring Semester, 2022

Assistant Chief, Quality Improvement Manager

Oversaw record keeping and HIPAA compliance and led the operational team.

Fall Semester, 2020 – Spring Semester, 2021

Infection Control Officer, Lieutenant of Training

Organized and managed all training-related endeavors and served as a point of contact for infectious disease exposure and COVID-19 protocol implementation.

Fall Semester, 2019 – Spring Semester, 2020

Crew Chief, Field Training Officer, Clinical Preceptor

Responded to 911 calls within the campus community while overseeing medical care, educating students, and training EMTs.

Central New York Collegiate Emergency Medical Services Conference Organizer

Hosted the first (2021) and second (2022) annual conferences, facilitating collaboration across university EMS programs throughout Central New York.

Central New York Regional EMS Council (REMSCO)

January 2020 – 2023

Associate Member for Cortland County

Evaluated treatment protocol, procedure, and policy related to clinical care of pre-hospital patients. Served on the subcommittee for training and education, in which approvals and oversight of regional training programs take place.