

# KALEB J. FRIERSON

+1 (315) 237-9818  
kjf2152@cumc.columbia.edu

New York, NY

## EDUCATION

---

<b>MPH</b>	Master of Public Health in Epidemiology Columbia University Mailman School of Public Health	Spring 2025
<b>CAS</b>	Certificate of Advanced Study in Data Science Columbia University Mailman School of Public Health	Spring 2025
<b>BS</b>	Bachelor of Science in Biology, Minor in Chemistry The State University of New York at Cortland	Spring 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 in line with most accepted medical practice and approved protocols. Educated and mentored students and new employees in a field clinical setting.

## RESEARCH EXPERIENCES

---

**Genetic Basis of Idiopathic Pulmonary Fibrosis** Fall 2023  
Columbia University Irving Medical Center, Dept. of Medicine  
Advisor: Dr. Christine Kim Garcia  
The introductory student was responsible for reviewing appropriate literature and observing trends within a large cohort study. Attended weekly translational and clinical research meetings to report findings and receive feedback. Collaborated with laboratory members to ensure best practices across various analyses.

### **Invasive Species Ecology: Undergraduate Research Fellow**

The State University of New York, College at Cortland

Fall 2020 – Spring 2023

Advisor: Dr. Andrea Dávalos

The primary author investigated the impacts of ecological stressors on soil biodiversity using macroinvertebrates as bioindicators. Developed laboratory and field research skills, including biological sampling, sample identification, molecular techniques, and coding-based analytics.

## **TEACHING EXPERIENCES**

---

**State University of New York, College at Cortland**

Fall 2022

**Teaching Assistant**, Applied Biostatistics: Dr. Andrea Dávalos

Mediated student difficulties with the R coding program while developing and analyzing data. Hosted office hours weekly to work 1:1 with students seeking additional help with course content comprehension. Developed and facilitated review sessions before exams to maximize opportunities for student success.

**State University of New York, College at Cortland**

Fall 2021

**Supplemental Instructor**, Biological Sciences II: Dr. Laura Eierman

Created master notes and maintained an understanding of current course topics. Hosted multiple weekly review sessions for students to facilitate active learning and help new college students develop study and time management skills.

## **PUBLICATIONS & SELECTED PRESENTATIONS**

---

Frierson, K., J. Carlile, A. Dávalos 2024, *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., J. Carlile, A. Dávalos 2022, October. *Ecological stressors are associated with soil biodiversity in North American forests*: Student Conference on Conservation Science NY.

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

## **TECHNICAL SKILLS**

---

- PCR and diverse molecular lab techniques, field biological sampling, and data entry/management
- R, Stata, and SAS programming languages
- Microsoft Office

## **HONORS AND FELLOWSHIPS**

---

**Director's Citation**

Fall 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**

Spring 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**

Spring 2023

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

**Dr. Timothy J. Baroni Scholarship in Biology**

Fall 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**

Summer 2022

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

**Outstanding Undergraduate Research in Biological Sciences**

Spring 2022

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

**CERTIFICATIONS AND MEMBERSHIPS**

---

- **Advanced EMT:** *New York State Department of Health*
- **CPR Instructor:** *American Heart Association*
- **Member:** *American Public Health Association*
- **Member:** *American Association for the Advancement of Science*
- **Former Executive Officer:** *Beta Beta Beta Biological Honor Society*

**VOLUNTEER SERVICE**

---

**SUNY Cortland EMS***President, Department Chief*

2022-23

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

*Second Annual Collegiate EMS Conference Organizer*

Fall 2022

Facilitated, organized, and hosted a collaborative collegiate medical conference at SUNY Cortland.

*Quality Improvement Manager, Assistant Chief*

2021-2022

Oversaw record keeping and HIPAA compliance, as well as led the operational team.

*First Annual Collegiate EMS Conference Organizer*

Fall 2021

Inspired and organized the first collegiate medical conference in Central New York.

*Infection Control Officer, Lieutenant of Training*

2020-2021

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

*Crew Chief, Field Training Officer, Clinical Preceptor*

2019-2020

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

**Central New York Regional EMS Council (REMCo)**

January 2020 – 2023

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