Mr. Kevin E. Scriber, II, M.S., PhD

Phone: (205) 460-2349 | Email: k.e.scriber@gmail.com

Education

PhD 2014 - 2020 Howard University, Department of Biology, 3.8GPA
Advisor: Dr. Fatimah Jackson

MS 2011 - 2013 University of Alabama at Birmingham, Department of Biology, 3.5GPA
Advisor: Dr. J. B. McClintock

BS 2003 - 2010 Norfolk State University, Biology 2.6 GPA

Research Experiences

2014 – 2019: Research Associate at the Smithsonian Institution's National Museum of Natural History, studying and processing organic stable isotope samples at the OUSS/MCI stable isotope lab, under the direction of Dr. Christine France.

2014 - 2019: Conducted research on the trophic ecology of invasive apple snails (*Pomacea* spp.) in Maldonado, Uruguay (2014-2015), Hangzhou, Zhejiang, China (2017), and Oahu, HI (2018); using stable isotopes to track trophic interactions between plant and animal constituents of freshwater communities.

2013: Ninety-three days of Field research at Palmer Antarctic Research Station, on the effects of ocean acidification on mineralizing invertebrates; funded by a grant from the National Science Foundation.

2012-2013: Master's study away field research courses at UAB, taught by Drs. James B McClintock (M.S. Advisor) and Ken Marion (Professor Emeritus). Major portions of the course is taught at a tropical field station in the Caribbean and Galapagos Archipelago respectively; ; including lectures, laboratory, field trips, free diving, and a required research paper.

- **The tropical island ecology of San Salvador island, Bahamas BY-567 (2012)**

Course Description: An overview of the major tropical ecotypes with emphasis on ecology of terrestrial, aquatic, and marine tropical organisms.

- **The Ecology of the Galapagos archipelago BY-568 (2013)**

Course Description: An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms.

2011-2013: Master's thesis

The Preferential Feeding of the Freshwater Amphipod (*Hyalella azteca*:) The roles of chemical and structural defense, and nutritional value in prey choice

This thesis investigated discriminatory feeding behavior in a key freshwater consumer by testing the null hypothesis that the common omnivorous freshwater amphipod (*Hyalella azteca*) displays no differences in rates of prey consumption (a measure of prey palatability) or prey choice (a preference to consume for one prey in the presence of another) for a suite of prey that are sympatric, and thus of ecological relevance. I interpreted differences in prey palatability and

pairwise prey choice in the context of measurements of prey nutritional quality (soluble protein content) and the presence of chemical (secondary metabolites) and/or structural (tissue toughness) defenses.

2006 - 2009: Federal undergraduate internships at the National Institute of Health.

During my four summer internships at the NIH I visited and worked in research labs studying: 1) Microbiology, 2) Forensic Sciences, 3) Physiological and Neurological development of vertebrates, 4) Environmental factors contributing to disease, 5) and The Visible Human Project.

Academic Distinctions and Awards

2017 - 2018: Awarded Inaugural Julian-Just Research Assistantship from Howard University Graduate School.

2014 – 2017: Awarded (AGEP) Alliances for Graduate Education and the Professoriate Fellowship from Howard University's Graduate School.

2013: Inducted to Delta Epsilon Iota Academic Honor Society (lifetime member) at University of Alabama at Birmingham (UAB).

2013: Received the Antarctic Service Medal for work in the United States Antarctic Research Program.

2012: In 2013, Birmingham, AL celebrated the 50th anniversary of Martin Luther King's letter from the Birmingham city jail and the events of the Civil Rights Movement. As part of this celebration, UAB acknowledged outstanding African-Americans from the community; I was one recognized and interviewed by the UAB College of Arts and Sciences.

2012: Awarded Minority Mentor and Mentee of the Year Award at the (SREB) Southern Regional Education Board's Institute on Teaching and Mentoring.

2012: Inducted as an associate member of the Sigma Xi Scientific Research Society.

2012: Inducted as an associate member of the Society for Integrative and Comparative Biology.

2011 -2013: Awarded Bridge to Doctorate Fellowship from UAB, National Science Foundation.

Grants Awarded

2018: Awarded the Frederic Weiss Memorial Award **($1,870)** from the Conchologist of America's (COA) to support research on the trophic ecology of invasive apple snails (*Pomacea* spp.) in Oahu, HI (2018).

2016: Awarded Teaching as Research Grant **($1,500)** from the Howard University Graduate School and the Center for Integrating Research, Teaching, and Learning (CIRTL) Teaching Certificate Program to support the implementation of alternative active learning teaching methodologies to impact student learning outcomes.

Teaching Qualifications and Experience

- 1st (15- credit hour) Teaching Certificate from the Center for Integrating Research, Teaching, and Learning (CIRTL) consortium awarded by (UAB) Graduate School. (August 10, 2013)
- 2nd (15- credit hour) Teaching Certificate from the (CIRTL) consortium completed at Howard University Graduate School (Spring 2017)

Howard University

Laboratory Instructor

Fall and Spring Semesters (Fall 2014- Currently)

I have taught (3-hour) laboratory courses for Howard University since 2014; these courses listed below. *Course Descriptions are available upon request.

I. **Genetics (BIOL-200): (**2 Sections, Fall 2018)
II. **Invertebrate Biology Laboratory (BIOL-305):** (Fall 2017)
III. **Gen. Biology Lab (BIOL-101):** (**4 sections** fall 2016 and spring 2017)
IV. **Aquatic Ecology Laboratory (BIOL-543):** (Spring 2016)
V. **Invertebrate Biology Laboratory (BIOL-305):** (Fall 2014)

The Central Southern University of Forestry and Technology (CSUFT)

Changsha, Hunan, China

Adjunct Professor of Biology

(Summer 2017)

I was hired for the summer of 2017 as an adjunct professor of Biology, teaching Biostatistics, at CSUFT. I taught two 2-credit hour Biostatistics courses that provided an foundational understanding of statistics tests, their appropriate applications in scientific research, and the installation and operation of commonly employed statistical packages (*e.g.*: R and/or R-commander). *Recommendations and references are available from CSUFT upon request.

Auburn University at Montgomery (AUM)
Summer Adjunct Professor of Biology
@ The Central Southern University of Forestry and Technology (CSUFT)
(Summer semesters 2014 –2017)

Via the Confucius institute, AUM and CSUFT formed a partnership by which students could earn dual degrees from both universities. This required CSUFT students to pass AUM courses in English, as a precursor to traveling to and completing their studies at AUM.

I taught Environmental Sciences, Environmental Microbiology, and Ecology courses at CSUFT in English. Aside from the specific course learning objectives, a primary goal of the program was to improve students overall English reading comprehension and retention as well as conversation skills. By acclimating myself to the Chinese culture, and incorporating 1) open classroom dialogue and debate, 2) active learning group activities, 3) short graded written assignments, and 4) graded written exams students' learning outcomes improved. This led to a greater numbers of students completing their studies at AUM, and subsequently pursuing graduate study. *Recommendations and references are available from both AUM and CSUFT upon request.

University of New Orleans
Biodiversity Lab Instructor
(Fall2013-Spring2014)
At the University of New Orleans, I taught four Biodiversity labs from Fall 2013 - Spring 2014. This course gave a broad introduction into the diversity of life; including invertebrates, chordates, urochordates, vertebrates, plants, fungi, and more. It allowed for the students to understand the evolutionary and phylogenetic relationships that exist around the world. Also, the course provided a basic understanding of statistics, scientific writing, and Genetics. Off all students enrolled, 96% passed, 69% with a grade of B or higher. *Evaluation available upon request.

The University of Alabama at Birmingham (UAB)
Human Anatomy and Physiology Lab instructor
(Summer 2013)
I taught a single section of the Introduction to Human Physiology laboratory at UAB. Teaching this lab was a requirement for the completion of a teaching certificate from the Center for Integrating Research, Teaching, and Learning (CIRTL); that I earned alongside my Master's degree at UAB. This was my first solo collegiate teaching experience. The course learning objectives were geared towards understanding the integrated functions of human cells, tissues, and organ systems; 92% of my students passed the course.

At the end of the course, I was evaluated by the lab coordinator, Mr. Raymond Odom. My evaluations averaged of 4.85 of a possible 5 points overall. This average is comprised of scores for seven different criteria. I received excellent score (5 of 5 points) for #1) Overall Knowledge, #2) Policy Enforcement, #3) Student Engagement, #4) Punctuality, #5) Promptness of work return, and #6) Overall impression. I received a good score (4 of 5) for the clarity of my lectures.
*Lab coordinator's evaluation is available upon request.

United States State Department
Cultural Acclimation Counselor (Contractor)
(Summer 2010 - 2011)
As a Cultural Acclimation Counselor I worked with foreign exchange students in the summer of 2010 (Yemen) and 2011 (Germany). I assisted students in acclimating and transitioning to America life from Yemen (2010) and subsequently again with German students (2011). This taught me to learn to communicate effectively with people from various backgrounds and walks of life. It also improved my ability to convey my ideas to students who lack proficient conversational English skills; and my ability to improve said skills therein.

Presentations and Conferences attended

- Presented analyzed data from a study of the trophic ecology of apple snails (Ampullariidae) in the genus *Pomacea* at the MAM (Mid-Atlantic Malacology) meeting at the National Museum of Natural History. (4/2017)
- Presentation at Georgetown University on the trophic ecology of apple snails (Ampullariidae) in the genus *Pomacea* at the invitation of Dr. Leslie Ries. (4/2017)
- Presented an analysis of the trophic ecology of apple snails to the Biology Department at Howard University. (4/2017)

- Presented preliminary data from a study of the trophic Ecology of apple snails (Ampullaiidae) in the genus *Pomacea* at the MAM (Mid-Atlantic Malacology) meeting at the Delaware Museum of Natural History. (4/2016)
- Guest lecturer in the Evolution (BIOL 240) course at Howard University on the topic of Species and speciation. (10/2015)
- Howard University Departmental Seminar on the diversity of macroinvertebrates, between disturbed and pristine freshwater lakes in Maldonado, Uruguay. (10/2015)
- Howard University Departmental Seminar on the trophic placement of *Pomacea canaliculata* and the diversity of macro invertebrates in two lakes in Maldonado, Uruguay, at Howard University's Departmental Seminar. (4/2015)
- Attended the South American Institute for Resilience and Sustainability (SARAS), in Maldonado, Uruguay. The institute is focused on interdisciplinary research involving the impact of change and instability on natural and social environments. (12/2014)
- Attended Congresso Uruguayo de Zoologia, in Maldonado, Uruguay; organized by the zoological society of Uruguay, to discuss the national environmental interest of Uruguay for the president of Uruguay. (12/2014)
- Presented my Master's thesis research at a Howard University Departmental seminar on the preferential feeding of the freshwater Amphipod *Hyalella azteca*, at Howard University's Departmental Seminar. (11/2014)
- Research Poster presentation of Master's research on the preferential feeding of freshwater amphipods (*Hyalella azteca*) at the Society for Integrative and Comparative Biology (SICB) San Francisco, California (1/2013)
- Attended the (SREB) Southern Regional Education Board's Institute on Teaching and Mentoring (11/ 2012)
- Guest Lecturer; Chemical Ecology (BY-674), Topic: allelopathic interactions in plants and animals, University of Alabama Birmingham (10/2012)
- Presented Master's thesis research on the preferential feeding of freshwater amphipods for sympatric vascular plants and algae at the 2012 NSF JAM Convention in Washington D.C. (6/2012)
- 2nd Place Presentation at the Alabama Louis Stoke Minority Participation (ALSAMP) Bridge to Doctorate Spring Conference at Auburn University (Bio. Sciences) (4/2012)
- Presented Master's thesis research on the preferential feeding of freshwater amphipods for sympatric vascular plants and algae at the Alabama Louis Stoke Minority Participation/ Bridge to Doctorate Winter Conference at UAB (1/2012)