**Forrest Collins, Master Candidate**

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(954) 980-0119

**EDUCATION**

**Master of Science, Biology**

University of Alabama at Birmingham, 2022 Birmingham, AL

**Bachelor of Science (Honors), Biology**

University of Alabama at Birmingham, 2017 Birmingham, AL

Major- Biology

Minor- Chemistry, History

Concentration- Marine Biology

**AWARDS AND HONORS**

**Graduated with Distinguished Honors, 2017**

University of Alabama at Birmingham

**Honors Research Award, 2017**

University of Alabama at Birmingham

**First Place in Honors Research Expo, 2018**

University of Alabama at Birmingham

**Honorary Marine Biologist, 2010**

Tennessee Aquarium

**PROFESSIONAL EXPERIENCE**

**Clinical Laboratory Scientist/Laboratory Supervisor**

Circulogene Theragnostic

**Researcher 2**

UAB; Cellular, Development, and Integrative Biology Department

**Sea Turtle Aquarium Educator**

Mote Marine Laboratory

**Research Associate 1**

Moffitt Cancer Center

**Researcher 1**

UAB; Cellular, Development, and Integrative Biology Department

**Coosa River Keeper** **Inter**

Coosa River Keeper

**RESEARCH EXPERIENCE**

**Addressing New Technology in Radio Tracking for the Conservation and Ecology of the**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbels

-Thesis, Chapter II

**Mississippi Diamondback Terrapins (Malaclemys terrapin pileata)**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbels

**Long Term Variability of Nesting Beach Temperatures of Hawksbill Sea Turtle**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbels

**(Eretmochelys imbricata) Rookery in the Western Caribbean**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbels

**Using Stable Isotope Analysis to Better Understand the Diamondback Terrapin**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbels

-Thesis, Chapter I

**Force Recognition and Signaling on Cells to Better Understand Their Communications**

University of Alabama at Birmingham, under the Lab PI of Alexa Mattheyses

**The Importance of S100A9 on Myelodysplastic Syndrome**

Moffitt Cancer Center, under Lab PI, Dr. Alan List

**How Different Inhibitors Affect Multiple Sclerosis and Parkinson’s Disease**

University of Alabama at Birmingham, under the Lab PI of Dr. Hongwei Chen

-Published: JCI-Insight. May 2nd, 2019

**Historical Findings of the Kemps Ridley**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbles

**The Decline of the Kemps Ridley off of Dauphin Island, Alabama**

Independent Research

**Temperature Dependent Sex Determination of the Diamond Back Terrapin**

University of Alabama at Birmingham, under the mentorship of Dr. Thane Wibbles

**Conservation of *flora* and *fauna* of Cedar Point Marsh, Alabama**

University of Alabama at Birmingham, under the Mentorship of Dr. Thane Wibbles

**Location and Tracking of Shark Species Along Alabama’s Gulf Coast**

University of South Alabama, under the Mentorship of Dr. Marcus Drymon

**GRANTS**

**Alabama Audubon: Walter F. Coxe Research Grants, 2021**

Awarded- $1,000

**Diamondback Terrapin Working Group, 2021**

Awarded- $662.50

**National Science Foundation (NSF), 2020**

Applied

**TEACHING POSITIONS**

**Environmental Science Lab- 109**

University of Alabama at Birmingham, Fall 2021

**Introduction to Human Physiology Lab- 409L**

University of Alabama at Birmingham, Summer 2021

**Vertebrate Zoology Lab- BY 256L**

University of Alabama at Birmingham, Spring 2021

**Introduction to Biology Lab- BY 124L**

University of Alabama at Birmingham, Fall 2020

**LICENSES**

Boater’s License, 2021

Open Water Scuba Certified, 2016

-16060Q4855

**PRESENTATIONS**

*Addressing New Technology in Radio Tracking for the Conservation and Ecology of the Mississippi Diamondback Terrapins (Malaclemys terrapin pileata)*

Biology and Conservation of Marine Sea Turtles, 2021

*Evaluations of Stable Isotope Signatures in Diamondback Terrapins*

Alabama Chapter of The Wildlife Society, 2021

Biology and Conservation of Marine Sea Turtles, 2021

Alabama Academy of Science, 2021

Marine Science Graduate Student Symposium, 2021

Discoveries in the Making, 2021

*Long Term Variability of Nesting Beach Temperatures of Hawksbill Sea Turtle (Eretmochelys imbricata) Rookery in the Western Caribbean*

Biology and Conservation of Marine Sea Turtles, 2021

*Using Historical Data to Discover the Mystery Behind Lepidochelys kempii Disappearance*

UAB Research Expo, 2017

UAB Honors Research Dinner, 2017

*Juvenile Deaths and Migration Ratios of the Lepidochelys kempii*

Bays and Bayous Symposium, 2016