

# Sienna Krulis

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## Education

### University of Central Florida

*B.S. in Ecology, Evolutionary, and Conservation Biology, Environmental Studies Minor*

Orlando, FL

Aug 2018 – May 2022

Relevant coursework: GIS for Biologists, Research Methods for Ecosystem Assessments, Programming for Biologists, Biological Research Methods & Experimental Design, Vertebrate Evolution & Ecology

#### Academic Achievements

- Cumulative GPA: 3.488
- Florida Bright Futures Scholarship Program, Florida Academic Scholar Recipient: 2018 - 2022
- Dean's List: Spring 2020, Fall 2020, Spring 2021
- President's Honor Roll Certificate: Fall 2021

## Relevant Experience

### Seasonal Phenotype Research Technician

*Driscoll's of Florida, Inc.* (40 hrs per wk)

Dover, FL

Dec 2022 – Current

- Assist in observations, data collection, and fruit sampling within the fruit test plots
- Perform laboratory analysis on sampled fruit quality including firmness, color, flavor, and nutrients

### Volunteer Interpretive Guide

*Tampa Audubon Society - Lettuce Lake Nature Park* (4 hrs per month)

Tampa, FL

Dec 2022 – Current

- Provide basic orientation information by distributing wildlife pamphlets, park maps, and membership details
- Educate visitors on local flora and fauna while emphasizing points of interest

### Seasonal Biological Field Technician

*St. Marks National Wildlife Refuge* (40 hrs per wk)

St. Marks, FL

May 2022 – Aug 2022

- Eastern newt trapping and tagging with PIT tags and VIE identifiers, *Bsal* swabbing
- Endangered Red-cockaded woodpecker monitoring: removing chicks from tree cavities for banding, monitoring growth progress using camera setup, resighting band combinations of adult and juvenile birds with scopes
- Photo points to assess overgrowth at refuge ponds before controlled burn using GPS
- At St. Vincent NWR: Sea turtle nesting surveys & radio telemetry tracking of Endangered Red wolves

### Field Researcher

*Undergraduate Research (Vertebrate Evolution & Ecology Course)* (2 hrs per wk)

Orlando, FL

Jan 2022 – May 2022

- Monitored coverboard and PVC tube traps weekly on UCF campus to record local amphibian and reptile abundances
- Examined impacts of habitat disturbance and invasive species removal on native species abundance

### Teaching Assistant

*Programming for Biologists in R – Goolsby Lab at UCF* (10 hrs per wk)

Orlando, FL

June 2021 – Dec 2021

- Collaborated with faculty in an introductory R programming course for 30 undergraduate and graduate students
- Developed engaging lecture material and tutorials to support student learning objectives
- Tested student assignments to gauge difficulty and relevancy for early career biologists
- Explored concepts of tidyverse and ggplot2 packages, RMarkdown, GitHub, and ethics of data science

### Lead Parks Worker/Nature Program Intern

*City of Orlando Parks and Recreation Bill Frederick Park at Turkey Lake* (15 hrs per wk)

Orlando, FL

Jan 2020 – Aug 2021

- Developed and led nature programs for youth camps ranging from Pre-K to 5<sup>th</sup> grade
- Updated and improved trail guide brochures with scientific information on local flora and fauna
- Handled booking arrangements and admission fees for park amenities

### Laboratory and Field Research Assistant

*UCF Coastal and Estuarine Ecology Lab; Indian River Lagoon Projects* (10 hrs per wk)

Orlando, FL

Sept 2019 – April 2020

- Analyzed water and oyster samples for microplastics via filtration and microscopy
- Installed oyster mats for shoreline stabilization and ecological benefit; project success measured at regular intervals
- Participated in shoreline bird counts and behavior studies on Mosquito Lagoon oyster mats

## Skills and Certifications

### Fieldwork Skills

- Amphibian and bird identification and handling
- 4WD vehicle operation in off-road conditions
- PIT and VIE identifier injections
- Radio telemetry tracking
- Knowledge of GIS and GPS systems
- Color-banded bird resighting
- Tree climbing with ladders and harness system
- Wildlife camera trapping
- Sea turtle nesting surveys
- Working in difficult weather conditions

### Analysis Skills

- Statistical and spatial software: RStudio, GitHub, JASP, ArcGIS
- Digital image manipulation: GIMP, Image J, FireAlpaca

### Certifications

- USFWS UTV/ATV Handling, Heavy Equipment Machinery - Tractors (Expires 2025)
- NAUI Open Water Scuba Diver (Certified June 2022 - Record # E41FA9B)

## Additional Experience

### Lead Mentor

Orlando, FL

*GEMS Mentoring Program - EXCEL UCF* (15 hrs per wk)

Aug 2019 – May 2022

- Facilitated bi-weekly organizational sessions and training with the program director and mentors
- Coordinated program events, including speaker recruitment, marketing to students, and event facilitation
- Designed brochures, organized mail-outs, and social media marketing for all GEMS-related activities
- Conducted program assessments, including reflection surveys, participation points, and an annual report to the director

### President and Social Media Coordinator

Orlando, FL

*Knights for Wildlife Conservation (Student Organization at UCF)*

Aug 2019 – April 2021

- Coordinated all club meetings and events, including off-campus hikes, trash clean-ups, and guest speakers
- Created club marketing via the website, Facebook, and Instagram, posting updates regarding meetings, volunteer positions, campus events, and other conservation opportunities

### Sales Associate

Tampa, FL

*Forever21* (20 hrs per wk)

May 2019 – Aug 2019

- Greeted and offered assistance to all guests entering the business and aided in locating desired merchandise
- Maintain aesthetics and functionality of the store by organizing stock room, customer-facing areas, and POS counters
- Solved customers' issues to minimize conflict and increase their satisfaction with their shopping experience

### Food Service Worker

Orlando, FL

*'63 South - Aramark* (15 hrs per wk)

Sept 2018 – Dec 2018

- Distributed food from service counter to restaurant patrons
- Performed general janitorial tasks, including dishwashing, dining room tidiness, and restocking supplies as needed
- Operated POS to admit patrons to the restaurant

### Girl Scout Alum

Tampa, FL

*Girls Scouts of West Central Florida*

Aug 2006 – May 2018

- Achieved Bronze and Silver Awards
- Planned and executed 5 weekend encampments for 600+ attendees in the Tierra Del Sol community
- Developed entrepreneurial skills by annually participating in the Girl Scout Cookie Program