

Noah J. Carl

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CURRENT POSITION

University of Florida
Research Technician

Milton, FL
January 2023 – Present

EDUCATION

Miami University
BA, Zoology

Oxford, OH
August 2008 – May 2012

PROFESSIONAL EXPERIENCE

University of Florida; Donovan Lab, WFREC/IFAS

Milton, FL

Research Technician

January 2023 – Present

- Design and conduct experimental studies related to ecosystem resiliency in the Florida Panhandle.
- Manage funding sources/expenses, obtain remote data, supervise and assist graduate student projects.
- Teaching assistant for Fire Ecology course and guest presenter for Intro to Natural Resources course.

Zoo Atlanta

Atlanta, GA

Herpetology Keeper III

December 2019 – December 2022

- Caretaker of >90 herptiles, including salamanders, frogs, crocodylians, turtles, snakes, and lizards.
- Operant conditioning training, veterinary procedures (radiograph restraints, blood draws, etc.).
- Habitat modifications requiring concrete construction and metal cutting/shaping.

Cleveland State Community College

Cherokee National Forest, TN

Field Assistant

September 2019 – December 2019

- Surveyed streams associated with recently-installed culverts for salamanders, fishes, and invertebrates in a mark recapture study using dipnets and electrofishing via backpack.

University of Florida

Sabanitas, Panama

Research Assistant

July 2019 – August 2019

- Conducted night surveys on nocturnal poison dart frogs (genus: *Andinobates*).
- Ascended 45m trees (*Anacardium excelsum*) using SRT climbing system in timed samplings.

St. Augustine Alligator Farm

St. Augustine, FL

Reptile Keeper II

June 2015 – June 2019

- Diverse collection - 24 crocodylian species plus elapids, viperids, helodermatids, and more.
- Daily educational presentations on crocodylian natural history, native species, and conservation practices.

Cincinnati Zoo

Cincinnati, OH

Seasonal Reptile Keeper

May 2014 – November 2014

- Provided appropriate husbandry and educational presentations using animals.

Mystic Aquarium

Mystic, CT

Herpetologist

January 2013 – May 2014

- Cared and managed the collection of 71 herptiles.
- Freshwater and saltwater tank experience, knowledge of aquarium plumbing, large elasmobranch care.

Louisville Zoo

Louisville, KY

Seasonal Bird Keeper

June 2012 – November 2012

- Provided appropriate husbandry for diverse exotic bird collection – including diets, aviary maintenance, operant conditioning of lorikeets, and visitor engagement.

Miami University

El Copé, Panama

SIT Study Abroad Undergraduate Researcher

January 2012 – May 2012

- Emphasis on Central American snakes. Researched nocturnal Dipsadinae snake behavior and ontogenetic shift preferences with Dr. Julie M. Ray (photograph and mention in new species of *Dipsas* publication: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10208233/>)
- Ran transects off-trail and surveyed canopy height, canopy cover (using a densiometer), stream flow, and understory plant composition.

RELATED EXPERIENCE

Falcon Tree Specialists

Chattanooga, TN

Arborist

September 2019 – December 2019

- Identified problematic trees and used chainsaws to portion out pieces for staging into wood chipper.

Daintree Bat Rehab Center

Daintree Rainforest, Australia

Volunteer

November 2018 – December 2018

- Cared for fruit bat colony – including feeding, cleaning, and enrichment.

Sunrock Farm

Wilder, KY

General Farmworker

February 2015 – June 2015

- Diversity of farm animals (e.g., horses, cows, chickens, sheep, emus, pigs, donkeys, etc.).
- Milked goats, managed compost piles, fed out daily diets, talked to camp children about sustainability.

Khamai Reptile Centre

Hoedspruit, South Africa

Intern

December 2014 – January 2015

- Completed research on warning cue proclivity in Snouted cobras (*Naja annulifera*).
- Relocated mambas, cobras, boomslang, and pythons from local residences.
- Assisted with Baboon spider (*Augacephalus breyeri*) relocation survey.

Kentucky Reptile Zoo

Slade, KY

Intern

April 2008

- Worked under supervision of executive director, Jim Harrison, in the maintenance of the zoo's venomous reptile collection.

Louisville Zoo

Louisville, KY

Volunteer

2003 – 2008

- Recipient of the J. Michael Heaton Service Award.
- Worked with herptiles in the HerpAquarium and also with orangutans, babirusas, siamangs, tapirs, and Sumatran tigers in Islands department.

Springhurst Veterinary Hospital

Louisville, KY

Lab Technician

2007 – 2008

- Administered medication, recorded patient weight, obtained blood samples, ensured clean and safe environment, and followed routine.

SKILLS/CERTIFICATIONS

Field Research Techniques

- Installing amphibian tree tubes and artificial cover, subcutaneous PIT tag insertion in crocodylians, biosecurity protocols (PARC workshop), toxicity swabbing of Dendrobatids, acquiring anuran morphometrics, anuran toe clippings, Daubenmire quadrat protocol techniques, dataloggers, avian mist nets, bird banding, euthanasia procedure on amphibians using MS-222 in accordance with IACUC protocol, and GPS coordinate placement/tracking on Garmin and Bad Elf devices

Advanced Open Water and Nitrox SCUBA certification; (PADI)

- Specialties: Search and Recovery, Dive against Debris, Underwater Navigation

S-190/S-130; L-180; ICS-100 Wildland Fire certification; field course portion: Florida Forest Service

Manual Labor

- Proficient using chainsaws, power tools, weedwhackers, and wood chipper
- Can operate standard transmission vehicles, 4WD vehicles, ATV's, tractors, gator utility vehicles, and outboard boat motors
- Mucking livestock stalls and forming compost piles

Quantitative Statistical Analysis

- Microsoft programs (Excel, Word), R software, DataGraph, Endnote/Mendeley/Zotero for citation reference, remotely-sensed inventory database analysis (FNAI, FIA, MTBS)
- Geographic Information Systems: ArcPro (including georeferencing drone imagery, fire severity modeling, and temporal landscape-level changes), QGIS, Google Earth Engine javascript coding

Outreach and Multimedia

- Final Cut Pro X, GIMP, Microsoft PowerPoint, drone (UAS) flight experience

CPR AED certified; (American Heart Association)

Water quality testing; (Zoo Atlanta)

- LED-sourced colorimeter for monitoring nitrite, nitrate, ammonia, phosphate, and free chlorine

Invertebrate collection and identification; (Miami University entomology course)

- Sweep nets, D-frame dipnets, pitfall traps, malaise traps, light sheets, and stereo microscope

Level 1 SRT/DRT tree climbing certification; (Tree Climbers Coalition)

- Vertical ascension/descension, horizontal tree transfer, and rescue

Instructor - AZA Croc School; (St. Augustine Alligator Farm, 2016 – 2019)

- Leading large crocodylian (<500 lbs) captures and restraints, diagnostic keying, and handling

Venomous snake handling; (MedToxin Venom Labs, Khamai Reptile Centre, Zoo Atlanta, SAAFZP)

- Elapids, viperids, atractaspids, and colubrids
- Tubing, hooking, tailing with hook, tongs, shifting to container, force feeding, eye-cap removal
- Course-trained in elapid bite treatment; (Cincinnati Zoo)

Relevant coursework: Dendrology (UF), Fire Ecology (UF), Comparative Morphology (Miami), Evolutionary Analysis (Miami), Statistics (Miami), Genetics (Miami), Entomology (Miami)

PUBLISHED WORK

Carl, N.J., Paul, J.S., and Mendelson III, J. In review. Smell and Tell: Behavior Associated with Chemosensory Stimuli in Guatemalan Beaded Lizards (*Heloderma charlesbogerti*). Herpetological Conservation and Biology.

Carl, N.J., Paul, J.S., and Clarkson, M. *Boana rosenbergi* (Rosenberg's Gladiator Frog) and *Cochranella granulosa* (Granular Glass Frog) interspecies amplexus. Natural History Notes. Herpetological Review 54(3) 424–425.

Basham, E., González-Pinzón, M., Romero-Marcucci, A., **Carl, N.,** and Scheffers, B. 2022. Large, old trees define the vertical, horizontal, and seasonal distributions of a poison frog. *Oecologia* 198 (2): 1–13.

Carl, N.J., Stewart, H. A., and Paul, J. S. 2020. Unprovoked Mouth Gaping Behavior in Extant Crocodylia. *Journal of Herpetology* 54 (4): 418–426.

Carl, N.J. and Darlington, J. 2017. Extended Parental Care in Broad-Snouted Caiman *Caiman latirostris* (Daudin,1801) (Crocodylia, Alligatoridae). *Herpetology Notes* 10: 127–129.

REFERENCES

Robert Hill
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