

Beau Dylan Garcia

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Rippleswilderness.com | <https://beaug33.wixsite.com/beau-garcia>

SCHOLARLY INTERESTS

My research interests include studying the behavior of animals in the wild to create efficient conservation management with a focus on herpetofauna. Specifically, I wish to help manage sustainable Eco-tourism by studying the effects it may have on the behavior of threatened/endangered species. I aim to create a program that introduces students to these ecological field studies. While teaching students the necessary skills, the data collected would help educate Eco-tourism programs and local communities on conservation.

Special interests: Conservation behavior, animal behavior, herpetology, ecology, wildlife management, outreach, and education.

EDUCATION

University of New Hampshire (UNH) - Durham, N.H.

(May 2018)

Bachelor of Science in Zoology.

Minor in Environmental Conservation and Sustainability

GPA 3.2 Relevant Courses GPA 3.7

GRE SCORES

Verbal: 149 Quantitative: 145 Analytical: 3.

Western Colorado State University- Gunnison, CO

Current Graduate Track

Master of Environmental Management

Master of Science in Ecology

Awards and Fellowships:

McNair Scholars Research Fellowship (\$3500)

(June 2015 - May 2016)

EMPLOYS NSF Fellowship (\$34,000)

(Fall 2025 – Summer 2026)

EXPERIENCE

Founder of Ripples Wilderness Program

(January 2023 – Current)

Crested Butte, CO [Rippleswilderness.com](https://rippleswilderness.com)

I created this Non-Profit wilderness program that focuses on increasing students' awareness both in nature and within themselves. To do this, we focus on increasing the awareness of ourselves and the effects our choices have on the world around us. These skills are acquired by a few techniques. Playing with our senses (blindfold challenges and barefoot games), sit spots (a practice of being still, patient, and observing closely what's around), and ecology (the study of how everything is connected within an ecosystem). Interacting with nature through a means of adventure and exploration, rooted in scientific and creative lenses for the basis of our lessons, we believe in crafting future environmental stewards to push forward the movement of caring for oneself, others, and the places we call home.

Gunnison Valley School District Substitute Teacher (October 2022 – Current)
800 North Boulevard, Gunnison, CO
I fill in for teachers from grades K-12

Operation Wallacea, Lead Herpetologist (June - August. 2025)
Sulawesi, Indonesia
Guided high school and university level students on herpetofauna visual encounter surveys and pitfall traps both mornings and nighttime. I captured herpetofauna when possible, allowing students to help with measurements and data collection. I taught lectures on herpetofauna.

Operation Wallacea, Lead Herpetologist (June - August. 2022)
Sani Biological Station, Napo River, Ecuador
Guided high school and university level students on herpetofauna visual encounter surveys both mornings and nighttime. I captured herpetofauna when possible, allowing students to help with measurements and data collection. I created a new biodiversity report for the station including Identification photos. I taught lectures on herpetofauna.

Herpetology Technician (June - September. 2021)
Wyoming Game and Fish Department, Laramie, WY
I traveled throughout the state conducting visual encounter surveys and swabbing amphibians for Chytrid to assess amphibian and reptile populations. Our focus was on trout population trends and how Chytrid fungus affects amphibian populations, especially endangered Boreal Toads (*Anaxyrus boreas*). I collaborated with the US Forest Service to assess amphibian populations and breeding status in post-burn areas. In a new study, I worked with Spiny Softshell Turtles (*Apalone spinifera*) as well.
I used noosing and tail clipping procedures to assess various WY lizard populations. My work involved long hikes or backpacking to our sites in high-density bear and moose areas.

Environmental Awareness Educator**(July - October. 2020)**

Crested Butte, CO

During Covid, I created a camp for local kids in my town.

Our focus was learning environmental awareness and conservation.

I taught stream studies, animal behavior lessons, and the history of our land.

PSIA Ski Instructor**(December 2019 – April 2024)**

Crested Butte, CO

PSIA Alpine1 Certified and Child Specialist1 Certified

Experience Learning Environmental Educator**(August-November. 2019)**

Spruce knob mountain center, 18 woodlands way, Circleville, WV

Working independently and as part of a team, I taught kids of all ages and adults how to become more aware of nature and their daily lives. I helped conduct stream studies, taught backpacking/camping skills, and worked as an onsite Wilderness First Responder.

Operation Wallacea, Lead Herpetologist**(June - August. 2019)**

Calakmul Biological Reserve, Campeche, Mexico

I guided high school level students and Central American park rangers on herpetofauna visual encounter surveys both mornings and nighttime.

I captured herpetofauna when possible, allowing students to help with measurements and data collection. I taught lectures on herpetofauna.

Research Assistant**(May - August. 2018)**

UNH Cooperative Extension and New Hampshire Fish and Game Department (non-game), Durham, NH

I worked both on my own and with a team of 2-4 people to catch and collect data on turtle species in NH, specifically Blandings and spotted turtles. We used radio telemetry to track Blandings turtles' movement and identify habitat use.

McNair Peer Advisor**(January - May 2018)**

UNH, Durham, NH

I advised Pre-McNair students to provide various support including acting as a chaperon to cultural and social events. I carried out administrative duties in the office.

REU – Organization for Tropical Studies**(June - August. 2017)**

La Selva Biological Station, Sarapiquí, Costa Rica

Title: "Factors affecting clutch success in three sympatric species of glass frog in Sarapiquí, Costa Rica"

I worked in a team of 3 to conduct nocturnal visual encounter surveys to find glass frogs and their eggs. Frogs found were captured if possible and data was collected such as sex, size, species, and height found. I returned alone during the day to our sites to check on each egg mass' condition.

Directed Research Project

(May 2017)

EcoQuest Education Foundation, Hunua Ranges, New Zealand

Title: "Effect of pest management on the abundance of the New Zealand endemic and endangered Hochstetter's Frog, *Leiopelma hochstetteri*, within the Hunua Ranges"

With a team of students and our field leader, we conducted frog count surveys, recorded frog measurements, and did vegetation/habitat measurements. We worked with data collected over the past 15 years between the same pest-controlled and non-pest-controlled areas to see the significance of invasive mammals on Hochstetter's frog populations.

McNair Research Fellowship

(May 2016 - March 2017)

UNH Cooperative Extension, UNH, Durham, NH

Title: "Quantifying the reproductive success of a declining shrubland-obligate songbird, the prairie warbler (*Setophaga discolor*), breeding in an active gravel pit in southeastern New Hampshire"

I worked with my project mentor, Matt Tarr, on an ecological study of shrubland habitats and their inhabitants in Southeastern, NH. Prairie warblers were caught using mist-netting, tagged them, took blood samples and GPS tracked their territories to find nests throughout the summer. My project goals were to measure these birds' reproductive output to analyze the quality of their habitat and learn what these birds need to be successful.

Freshwater Ecology Lab Assistant

(Sept. 2015 - May 2016)

Spalding Life Sciences, UNH, Durham, NH

I worked under Dr. James Haney, Dept. of Biological Sciences. My group and I were researching and culturing different species of cyanobacteria to learn more about their relations to ALS and Alzheimer's.

Resident Assistant

(August 2015 - May 2016)

UNH, Durham, NH

I enforced UNH housing policies for my residents and guided, counseled, and served as a resource for undergraduate students.

Entomology Lab Assistant

(Sept. 2014 - May 2016)

Spalding Life Sciences, UNH, Durham, NH

I worked in Dr. Donald Chandler's lab of the Dept. of Entomology. The research project involved creating an efficient way to classify and acquire specimens. I performed classifications on freshwater invertebrates collected by students. I also added scientific journals to the UNH database.

RESEARCH CONFERENCES AND PRESENTATIONS

Undergraduate Research Conference 2018

The University of New Hampshire, Durham, NH

Poster and Oral Presentation: "Quantifying the reproductive success of a declining shrubland-obligate songbird, the prairie warbler (*Setophaga discolor*), breeding in an active gravel pit in southeastern New Hampshire"

McNair Scholars Research Conference 2017

Florida International University, Miami, FL

Oral Presentation: "Factors affecting clutch success in three sympatric species of glass frog in Sarapiquí, Costa Rica"

McNair Scholars Research Conference 2016

The University of California, Berkeley, CA

Poster Presentation: "Quantifying the reproductive success of a declining shrubland-obligate songbird, the prairie warbler (*Setophaga discolor*), breeding in an active gravel pit in southeastern New Hampshire"

The University of New Hampshire Undergraduate Research Conference 2016

The University of New Hampshire, Durham, NH

Oral or Poster Presentation: "Methods of Culturing Aerosolized Cyanobacteria"

PUBLICATIONS

Garcia, Beau & Nahuat-Cervera, Pedro & Barão-Nóbrega, José. (2021). *Scaphiodontophis annulatus* (Guatemalan Neckband Snake). Diet. Herpetological Review. 52. 170-170.

Barão-Nóbrega, José & Nahuat-Cervera, Pedro & Avella, Ignazio & Capehart, Griffin & Garcia, Beau & Oakley, Joseph & Theodorou, Alexandros & Slater, Kathy. (2022). Herpetological diversity in Calakmul, Campeche, Mexico: species list with new distribution notes. Revista Mexicana de Biodiversidad. 93. 10.22201/ib.20078706e.2022.93.3927.

Garcia, Beau (2023). *Corallus blombergi* (Blomberg's Tree Boa). Geographical distribution. Herpetological Review. 54(2), 243.

(In Preparation) “Quantifying the reproductive success of a declining shrubland-obligate songbird, the prairie warbler (*Setophaga discolor*), breeding in an active gravel pit in southeastern New Hampshire”

PROFESSIONAL SKILLS

Lab Skills: Cell culturing, pipetting, and ELISA toxicology testing.

Field Skills: Mist netting, radio telemetry, trapping, handling various animals (including venomous), lizard tail clipping, plant and animal ID, motion sensor camera use, geographical/mapping, backpacking, LNT skills.

Certifications: Advanced SCUBA, defensive driver, SOLO Wilderness First Responder (2019), Desert Mountain Medicine Wilderness First Responder (2023), and CPR.

Technology: JMP12, Image J, Microsoft Excel, Word, and PowerPoint.

Language: English fluent and Spanish proficient.