

Brittany D. B. Greene, M.S.

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SELECTED ACCOMPLISHMENTS

- Substantial experience conducting field and lab work, including internationally, on multiple wildlife and botanical studies in rugged terrain and remote environments including desert, rainforest, wetland habitats, and temperate forest. Successfully developed and executed a study for Master's degree completion. Experience overseeing and conducting carnivore cognitive studies in a zoological setting.
- Extensive experience working with and handling large carnivorous mammals at multiple zoological facilities. Additional experience working internationally performing camera-trapping, scat sample collection, and scat sample analysis of felids.
- Extensive background in teaching high school and undergraduate students in field and lab settings as a fellow, student teacher, and professor's assistant on various scientific topics, including environmental conservation, biogeography, water quality testing, and basic ecology. Additional background educating the public on wildlife conservation at multiple zoological facilities.
- Worked for nearly two years as an Environmental Specialist for a locality in Virginia, gaining real-world experience working as a scientist in the public sector.

EDUCATION

M.S., 2016, Environmental Science

Christopher Newport University, Newport News, VA

Grade Point Average: 3.97

- Thesis: A Dendroecological Assessment of Loblolly Pine (*Pinus taeda*) Along a Salinity Gradient Within the York River Subestuary in Virginia

B.S., 2013, Biology, minor Chemistry

Christopher Newport University, Newport News, VA

Grade Point Average: 3.67 (Graduated Cum Laude)

EXPERIENCE

Panther Ridge Conservation Center, Loxahatchee, FL

November 2022-Present

Full-Time Exotic Feline Zookeeper

- Provide daily care in animal husbandry (including cleaning, diet prep, and shifting animals to/from display) for 10 carnivorous species at a Zoological Association of America (ZAA)-accredited conservation center
 - Practice "protected contact" (with presence of physical barriers) with species including:
 - Jaguar (*Panthera onca*)
 - Cougar (*Puma concolor*)
 - Practice "free contact" (without physical barriers) with species and subspecies including:
 - Cheetah (*Acinonyx jubatus*)
 - Amur leopard (*Panthera pardus orientalis*)
 - Clouded leopard (*Neofelis nebulosa*)
 - Serval (*Leptailurus serval*)
 - Caracal (*Caracal caracal*)
 - Fishing cat (*Prionailurus viverrinus*)
 - Ocelot (*Leopardus pardalis*)

- African leopard (*Panthera pardus pardus*)
 - Carpathian lynx (*Lynx lynx carpathicus*)
- Perform husbandry training with resident exotic felines
- Administer and aid in administration of medications
- Successfully perform blood-draw training (from the tail) on cheetahs
- Educate the public on resident animals as well as ongoing conservation efforts for each species through social media and giving daily tours at the conservation center

Panther Ridge Conservation Center, Loxahatchee, FL

October 2021-March 2022

Independent Researcher

- Led and successfully conducted research for two on-going studies examining cognition in carnivore species
 - Conducted Institutional Animal Care and Use Committee (IACUC)-approved Multi-Access Box (MAB) testing with cheetahs at the conservation center in collaboration with Dr. Jennifer Vonk (Department of Psychology, Oakland University)
 - Administered IACUC-approved “Impossible Task” testing with seven feline species in collaboration with Victoria O’Connor and Dr. Jennifer Vonk at Oakland University

Panther Ridge Conservation Center, Loxahatchee, FL

July 2021-March 2022

Full-Time Paid Exotic Feline Intern (6 days a week for 3 months), Volunteer (3-4 days a week following cessation of internship – Note: Extent of duties did not diminish following transition from intern to volunteer)

- Provided daily care in animal husbandry (including cleaning, diet prep, and shifting animals to/from display) for 9 carnivorous species at a ZAA-accredited conservation center
 - Practiced “protected contact” (with presence of physical barriers) with species including:
 - Jaguar (*Panthera onca*)
 - Cougar (*Puma concolor*)
 - Asiatic leopard (*Panthera pardus*)
 - Practiced “free contact” (without physical barriers) with species including:
 - Cheetah (*Acinonyx jubatus*)
 - Amur leopard (*Panthera pardus orientalis*)
 - Clouded leopard (*Neofelis nebulosa*)
 - Serval (*Leptailurus serval*)
 - Caracal (*Caracal caracal*)
 - Fishing cat (*Prionailurus viverrinus*)
 - Ocelot (*Leopardus pardalis*)
- Performed husbandry training with resident exotic felines
- Administered and aided in administration of medications
- Administered, and aided in the administration of, cold-laser therapy on a special-needs ocelot with limited mobility
- Successfully performed blood-draw (from the tail) on cheetahs during blood-draw training
- Educated the public on resident animals as well as ongoing conservation efforts for each species while giving daily tours at the conservation center

Felidae Conservation Fund, Remote Work

August 2020 – May 2021, August 2021

Volunteer

- Volunteered 1-2x per week cataloging photos taken from 140+ trail cameras located in the western United States using the specialized program “Camerabase” in support of big cat conservation research

- A typical cataloging session included identifying wildlife to species level, inputting the number of individuals present, and determining type of human activity (if present) within multiple datasets (each containing up to over 1,000 photos)

Great Basin Institute, Las Vegas, NV

March 2020 – July 2020

Bat Gate Monitor

- Performed solo surveys detailing characteristics of existing bat gates located on decommissioned mines across the state of Nevada for the Nevada Department of Wildlife
 - Gained experience mapping out routes, driving off-road, and executing successful multi-mile solo back-country hiking trips to bat gates located on decommissioned mines
 - Obtained experience conducting all necessary safety protocols (including multiple daily check-ins and use of a Garmin inReach) to maintain communication while out of cellphone contact range
- *Field work was impacted and suspended due to risks associated with COVID-19*

Wildlife Safari, Winston, OR

December 2019 – March 2020

Full-time Carnivore Zookeeper Intern

- Provided daily care in animal husbandry (including cleaning, diet prep, and shifting animals to/from display) for multiple carnivorous species at an Association of Zoos and Aquariums (AZA)-accredited zoological park with the top cheetah breeding program in the Western Hemisphere/second top cheetah breeding program in the world
 - Practiced “protected contact” (with presence of physical barriers) with species including:
 - African lions (*Panthera leo*)
 - Sumatran tigers (*Panthera tigris sumatrae*)
 - Brown bears (*Ursus arctos*)
 - Black bears (*Ursus americanus*)
 - Practiced “free contact” (without physical barriers) with cheetahs (*Acinonyx jubatus*)
 - Acted as second on leash with cheetahs during public encounters/when walking ambassador cheetahs for enrichment
 - Aided with moving individuals between enclosures
 - Assisted with Species Survival Plan (SSP) cheetah breeding program
 - Observed individuals for signs of estrous (rolling, tail flicks, barking/vocalizations)
 - Gathered fecal samples from breeding individuals to determine presence of estrous
 - Aided with moving breeding individuals together when estrous signs were noted
 - Assisted with fecal drying for scat hormone level analysis
- Performed husbandry training with African lions, Sumatran tigers, and cheetahs
- Aided in chute training with Sumatran tigers
- Assisted during medical procedure on male Sumatran tiger under anesthesia
- Educated the public on resident animals as well as ongoing conservation research efforts at the wildlife park

Hoja Nueva, Madre de Dios, Peru

July 2019

Seasonal Summer Intern

- Performed avian surveys at predetermined locations
- Performed herpetological surveys on trails surrounding research station
- Conducted camera trapping for felids on trails surrounding research station
- Collected, washed, and dried felid scat samples found along trails or nearby beaches

- Trained in preparing wildlife hair sample slides for microscopic analysis

Virginia Zoological Park, Norfolk, VA

October 2018 – February 2019

Full-time Paid Bird/Australia Team Zookeeper Intern

- Provided daily care in animal husbandry for 23 animal species at AZA-accredited zoological park
 - Prepared diets and fed animals
 - Gathered and distributed daily enrichment to animals
 - Observed animals for changes in behavior
 - Performed daily cleanings of animal enclosures
 - Replaced perching and nesting materials in bird enclosures
 - Aided in administration of medications and performed health/hygienic check-ups (including determining weight, determining keel score, and collection of fecal samples)
 - Experience in catching birds using a net
 - Aided in shifting of animals between enclosures/from outdoor to indoor enclosures
- Aided in training multiple animal species including Cinereous Vultures (*Aegypius monachus*) and Rhinoceros Hornbills (*Buceros rhinoceros*)
- Aided in fecal sample collection in a Cinereous Vulture (*Aegypius monachus*) study regarding hormone levels and age of egg-laying in female birds
- Attended intern classes on subjects including:
 - Zoonotic Diseases
 - Animal Nutrition
 - Enrichment
 - Anesthesia in Zoological Medicine
 - Handling of Reptiles and Arachnids

Holistic Wildlife Services, NM LLC, Great Basin National Park, NV

August 2018 – October 2018

Bat Research Field Technician

- Collected and managed demographic data (sex, general age - adult v. juvenile, reproductive status, and tooth wear) of multiple species of bats for a project to monitor populations and determine management strategies of Mexican Free-tailed bats (*Tadarida brasiliensis*) and Townsend's Big-eared bats (*Corynorhinus townsendii*) in and around the Great Basin area for the National Park Service and Nevada Department of Wildlife
 - Safely removed bats caught in mist nets and harp traps
 - Ethically collected genetic samples in the form of hair samples and wing punch samples
 - Removed problematic bands from and rebanded recaptured bats that were banded as part of a previous study
 - Used/set up mist nets and harp traps
 - Placed/Retrieved bat acoustic detectors
- Conducted cave and mine surveys to aid in determination of potential bat roost locations

City of Newport News, Newport News, VA

September 2016 – July 2018

Environmental Specialist

- Conducted Erosion and Sediment Control (E&S) Inspections on residential and non-residential Construction General Permit (CGP) construction sites at a required frequency to ensure the minimization of sediment runoff into the city Municipal Separate Storm Sewer System (MS4)
- Conducted Post-Construction Best Management Practice (BMP)/Stormwater Management Facility (SWMF) inspections at a required frequency
- Conducted Illicit Discharge Detection and Elimination (IDDE) Dry Weather Screening
- Performed Wetland Delineations
- Performed public outreach at community events

- Gained experience providing comments on an Environmental Assessment

GK-12 Fellowship Program, Newport News, VA

June 2014 – February 2016

Fellow

- National Science Foundation (NSF)-funded fellowship in which semester- and year-long programs were developed and taught in class and field settings for high school International Baccalaureate (IB) students and high school ecology students regarding water quality and additional science topics relating to Ecology and Biology at Warwick High School in Newport News, VA
 - Directed students on specific topics including:
 - Sediment collection and determination of sedimentation rate in a local waterway
 - Insect collection and insect identification for use as biotic indicators in a local waterway
 - Water sample collection and water nutrient testing using a spectrophotometer in a local waterway
 - Fellowship distributed by the Department of Organismal and Environmental Biology at Christopher Newport University

Christopher Newport University, Newport News, VA

April 2012 – May 2016

Field Technician, Fellowship Funded M.S. Student, and Volunteer

- Led a study to determine dendrochronology and mortality of trees at coastal sites experiencing sea level rise along the York River Estuary
 - Thesis funded through the Rouse-Bottom Fellowship distributed by the Chesapeake Bay National Estuarine Research Reserve (CBNERR) System and Virginia Institute of Marine Science (VIMS)
- Served as a Student Teacher to high school students in a tidal wetland setting at Riverview Farm Park, VA as part of a program imparting the importance of water sanitation for natural areas performed locally by the Hampton Roads Sanitation Department (HRSD)
- Performed as a Professor's Assistant aiding undergraduate Environmental Conservation lab students to successfully conduct a field research project through to completion in the form of a poster presentation
- Served as a field assistant for four consecutive years in a study to analyze the floristic community and determine survival and morphometrics of trees planted at three created wetland sites in Loudoun County, VA
- Participated as a Field Assistant in plot establishment in Dismal Swamp State Park for the installation of water monitoring wells by cutting and flagging pathways

VA Department of Game and Inland Fisheries, Charles City, VA

April 2012 – August 2012

Intern

- Tracked the movement patterns of 18 Eastern Box Turtles (*Terrapene carolina carolina*) in an outdoor rough terrain field environment as part of a study to determine the viability of a conservation program in which turtles were penned and allowed to imprint on their environment prior to on-site release
- Gained extensive knowledge in radio telemetry tracking with handheld radio receiver

PRESENTATIONS

2018. "Women in Science" Panel. Panel presentation at Christopher Newport University Department of Organismal and Environmental Biology, Wednesday's 4 Work Program.

2015. **Bowen, B.** and R. B. Atkinson. Effect of Salinity and Elevation on Radial Growth of Loblolly Pine (*Pinus*

taeda) at Four Tidal Wetland Sites Along the York River Estuary, Virginia. Presentation at Society of Wetland Scientists International Annual Meeting, Providence, Rhode Island.

2015. Atkinson, R. B., **B. Bowen**, K. Kowalski, and E. Wright. Survival of 21 Tree Species and Planting Type Combinations in Created Wetlands in Loudoun County, VA: A 6-year Study. Poster presentation at Society of Wetland Scientists International Annual Meeting, Providence, Rhode Island.

2015. **Bowen, B.** and R. B. Atkinson. The effect of salinity and elevation on tree ring width of Loblolly Pine (*Pinus taeda*) at four tidal wetland sites along the York River Estuary, Virginia. Presentation at Virginia Academy of Science Research Symposium, Harrisonburg, Virginia.

2012. **Bowen, B.**, J. Roquemore, and R. B. Atkinson. Floristic composition of a created wetland in Loudoun County, Virginia. Presentation at 14th Annual Mid-Atlantic Regional Conference of Undergraduate Scholarship, Sweet Briar College, Virginia.

2011. Mcnure, B., **B. Bowen**, K. Lane, E. Driscoll, T. Rogers, C. Carter, J. Miller, and R. Atkinson. Preliminary analysis: Determining the effects of elevation and surrounding vegetation on the growth and restoration of Atlantic White Cedar. Poster presentation at Christopher Newport University, Newport News, Virginia.

PUBLICATIONS

2021. **Greene, B.** Feline Diet. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, Springer International Publishing.

2021. **Greene, B.** Feline Morphology. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, Springer International Publishing.

2021. **Greene, B.** Feline Navigation. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, Springer International Publishing.

2021. **Greene, B.** Feline Sensory systems. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, Springer International Publishing.

2014. Smith, W., **B. Bowen**, and R. Atkinson. LAKE TECUMSEH (Brinson Inlet Lake) WEIRS PROJECT POST WEIR MONITORING REPORT. Report overseen by U.S. Fish and Wildlife Service and submitted to the Norfolk District Army Corps of Engineers.

2013. **Bowen, B.** and M. Seidel. Rouse-Bottom Fellowship: A dendroecological assessment of coastal habitats along the York River, Virginia. Annual Report submitted to Rouse-Bottom Fellowship funder at CBNERR/VIMS.

2012. Weiser, J., J. Roquemore, **B. Bowen**, and R. B. Atkinson. The effect by hydrologic regimes and shade on growth of Atlantic White Cedar (*Chamaecyparis thyoides*) in the Cavalier Wildlife Management Area in Chesapeake, Virginia. The Ecology and Management of Atlantic White Cedar (*Chamaecyparis thyoides*) 2012 Symposium Proceedings.

ACADEMIC COURSEWORK

- **M.S. Coursework:** Biogeography (both attended and taught a course to undergraduates relating to biogeography), Technical & Scientific Writing, Biometry, Environmental Regulations, Scientific Communication, Environmental Geography, and Wetlands Ecology
- **B.S. Coursework:** GIS, Environmental Conservation, Ecology, Biological Conservation: Theory and Practice, Herpetology, Desert Ecology, Environmental Chemistry, Global Change, Evolution and Ecology, Botany, Zoology, Molecular and Cellular Biology, Sustainable Agriculture, Food Production and Public Health, Agriculture and Human Health, Organic Chemistry, Inorganic Chemistry, Intermediate Physics, General Chemistry, Statistics, Pre-Calculus, and Analytic Geometry

PROFESSIONAL CERTIFICATIONS

2018 – Present. Dual Inspector – Virginia Department of Environmental Quality

- Certified Stormwater Management Inspector
- Certified Erosion and Sediment Control Inspector

AFFILIATIONS

2020 – Present. Member – The Wildlife Society

2020 – Present. Member – Animal Behavior Society

2020 – Present. Member – American Society of Mammalogists

2012 – Present. Member – Beta Beta Beta Biological Honor Society

AWARDS AND FELLOWSHIPS

2014 – 2016. GK12 Fellowship funded through a grant provided by the National Science Foundation

2013 – 2015. Rouse-Bottom Fellowship distributed by the Chesapeake Bay National Estuarine Research Reserve System and Virginia Institute of Marine Science

2013 – 2014. Green Spring Garden Club Environmental Science Scholarship