

Brynn Harshbarger

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EDUCATION

MARSHALL UNIVERSITY

Huntington, WV

Jan. 2019–May 2021

Master of Science in Biological Sciences

WEST VIRGINIA UNIVERSITY

Morgantown, WV

Aug. 2013–Dec. 2017

Bachelor of Arts with Honors in Biology, *cum laude* (GPA 3.5), Spanish minor

Honors Thesis: Thresholds for Discriminable Vs Detectable Chirps in Apterotonids

PROFESSIONAL/RESEARCH EXPERIENCE

AMERICORP'S VISTA AT ZOOTAH

Feb. 2021- Present

Develop educational curriculum for youth

Implement internal systems to aid in the zoo's outreach education

Recruit and manage volunteers

MARSHALL UNIVERSITY: TEACHING ASSISTANT

Aug. 2019–May 2021 Taught 4 semesters of anatomy laboratories

Jan. 2019 Taught two sections of undergraduate biology laboratories (28 students each)

Encouraged students to think critically, follow the scientific process, and learn laboratory techniques

MASTER'S THESIS: SEASONAL VARIATION IN HOME RANGE AND CORE AREA USE IN *PROTITHECUS VERREAUXI*

Jan. 2019- March 2021 Monitored Verreaux's sifaka in Kirindy Mitea National Park, Madagascar

Collected locational and behavioral data

Cleaned large dataset to analyze seasonal changes in sifaka home range

Created home range maps through R and ArcGIS

GRADUATE FIELD LEADER

Mar. 2020

Organized and lead undergraduate students for Wildlife Ecology class project

Located and measured attributes of squirrel drays

WVU DIVISION 1 INTERCOLLEGIATE CROSS COUNTRY/TRACK ATHLETE

Aug. 2013- Dec. 2017 Competed on top 10 NCAA team

CHIMPS. INC

Jun.-Aug. 2017

Cared for chimpanzees, cleaned enclosures, prepared food, and maintained the sanctuary grounds

Co-led kid summer camps where we educated children on chimpanzee behavior and created environmental enrichment

HONORS BIOLOGY CAPSTONE: WEST VIRGINIA UNIVERSITY

May 2016-Dec. 2017 Designed and conducted research on electrical communication signals in black ghost knifefish
Constructed a chamber to record fishes' electrical responses to signals

PRESENTATIONS

Nov. 2020 BSC Seminar Series Marshall University: "Seasonal Variation in Verreaux's Sifaka (*Propithecus verreauxi*) Home-Range and Core-Area Size"

Jul. 2019 Harshbarger, Brynn and Axel, Anne. "Mapping movements of herded livestock in a tropical dry forest with respect to season and security: differentiating between frequently-visited areas and high-duration visitation spots". 56th annual Association for Tropical Biology and Conservation. 2019 Jul 30- Aug 3; Antananarivo, Madagascar

RELEVANT COURSEWORK

- Plant Ecology
- Animal Parasitology
- Principles of GIS
- Quantitative Ecology
- Ornithology
- Dgtl Image Proc/GIS Model
- SpTp: Wildlife Ecology & Mgmt
- R Data Analysis
- Principles of Conservation Ecology
- Ecology and Evolution
- Behavioral Ecology
- Restoration Ecology
- Animal Communication
- Global Food/Agricltrl Industry

AWARDS AND HONORS

June 2020 Biological Sciences Lab Manual Royalty Fund: **\$700** awarded for conference travel

Aug. 2013-May 2017 West Virginia Promise Scholarship winner: **\$4,750** annually

Aug. 2014-Dec 2017 Received full athletic scholarship: **\$10,000** annually

Aug. 2013-Dec.2017 Dean's Honors Scholar

Aug. 2014-Dec.2016 Academic All Big-12 Honors

Nov. 2014 Cross Country All-Region Honors

RESEARCH SKILLS

Proficiency with R Studio and ArcMap
Radio telemetry
Focal animal sampling and forest mensuration
Experience with Program Presence, SAS and ERDAS Imagine

SERVICE

April 2019 **Annual Brain Expo Marshall University organized by the Dana Alliance for Brain Initiatives**

- Demonstrated the neural effects of addictive substances to children using platyhelminthes

Oct.-Dec.2018 **Madagascar Biodiversity Partnership**

- Co-led English classes for field guides
- Participated in planting events to aid in forest regeneration
- Collected lemur behavioral data as part of a larger research project

PROFESSIONAL MEMBERSHIP

April 2019-2020

Association for Tropical Biology and Conservation