

INDIA FUTTERMAN

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EDUCATION

Vassar College

Bachelor of Arts, Earth Science

Overall GPA: 3.77

Poughkeepsie, NY

May 2019

Center for Himalayan Environment and Development Studies

SFS Bhutan: Himalayan Environment and Society in Transition

Paro, Bhutan

Spring 2018

WORK/RESEARCH EXPERIENCE

Department of Earth Science, Vassar College

Academic Intern

Poughkeepsie, NY

Aug 2018 – May 2019

- Held twice-weekly office hours to assist students with earth science coursework, proofread lab reports and papers, and advised during registration periods
- Coordinated departmental events, such as lectures and student research presentations
- Assisted with earth science laboratory exercises

Keck Geology Consortium

Advanced Project, Research Experience for Undergraduates

Claremont, CA

July 2018 – May 2019

- Participated in an intensive five-day field excursion in the Mojave Desert of southwestern Nevada to sketch and interpret outcrops and collect soil samples
- Mastered geological lab techniques such as sample preparation, XRF, XRD, ICP-MS, and GIS analyses to conduct thesis research on geomorphology and soil geochemistry
- Conducted an extensive literature review for the purposes of writing a senior thesis

The Environmental Cooperative at the Vassar Barns

Natural Resources Inventory (NRI) Intern

Poughkeepsie, NY

Jan – Aug 2017; Jan 2019

- Identified, assessed, and mapped all public ash trees in the City of Poughkeepsie to determine extent and severity of emerald ash borer (EAB) invasion
- Communicated results to city municipality and Poughkeepsie residents
- Authored EAB management recommendations to be included in City of Poughkeepsie NRI
- Revised and edited all chapters and figures in NRI

Warthin Museum of Geology, Vassar College

Assistant Curator

Poughkeepsie, NY

Aug 2015 – Dec 2017

- Managed Vassar's rock and mineral collection using online databases
- Developed and helped install interdisciplinary exhibits; conducted tours with local school groups

American Museum of Natural History

Research Experience for Undergraduates

New York, NY

May – Aug 2016

- Collected morphological data from museum specimens; analyzed data using advanced statistical methods to understand evolution of sexual size dimorphism in garter snakes

PRESENTATION EXPERIENCE

- Poster Presentation, “Preliminary, new insights into the evolution of an extant, 4-5 Ma soil-geomorphic surface and its unique petrocalcic horizons, southern Nevada, USA”, 2018 GSA Annual Meeting
- Oral Presentation, “The Morphological Evolution of Paro River”, Spring 2018 SFS Bhutan Research Symposium
- Poster Presentation, “Mapping an Invasion: Emerald Ash Borer in the City of Poughkeepsie”, Fall 2017 Northeast Arc Users Conference
- Oral Presentation, “The Evolution of Sexual Size Dimorphism in Natricines”, 2016 Biology REU Symposium, American Museum of Natural History

PUBLICATIONS

- Ruane, S., Myers, A., Lo, K., Yuen, S., Welt, R.S., Juman, M., **Futtermann, I.**, Nussbaum, R.A., Schneider, G., Burbrink, F.T., Raxworthy, C.J. 2017. Unrecognized species diversity and new insights into color pattern polymorphism within the widespread Malagasy snake *Mimophis* (Serpentes: Lamprophiidae). *Systematics and Biodiversity* 16(3): 229-244.
- Burbrink, F.T., **Futtermann, I.** 2019. Female-biased gape and body-size dimorphism in the New World watersnakes (tribe: Thamnophiini) oppose predictions from Rensch’s rule. *Ecology and Evolution* 9(17): 9624-9633.

TECHNICAL/CERTIFICATIONS

- Microsoft Office Suite, Adobe Creative Suite, Windows, ArcGIS, QGIS, STELLA, Orient
- ICP-MS, XRF, XRD, SEM (Hitachi SU-70), Laser Diffraction Analysis
- Mentors in Violence Prevention – Bystander Intervention Certification

AWARDS/HONORS

- Sigma Xi Scientific Research Honor Society, Associate Member
- Erminnie A. Smith Memorial Prize for Excellence in the Study of Geology