Harry Sasquatch

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EDUCATION

Ph.D. in Environmental Sciences **June 2021**
Oregon State University, Corvallis, OR

Graduate Certificate in College & University Teaching **2018**
Oregon State University, Corvallis, OR

M.S. in Biology **2015**
Bloomsburg University of Pennsylvania, Bloomsburg, PA

B.S. in Environmental Biology, *cum laude* **2013**
Keystone College, La Plume, PA

TEACHING EXPERIENCE

Graduate Teaching Assistant **Sept. 2018 - Present**
Oregon State University, Corvallis, OR
Graduate Certificate in College and University Teaching Program

- Facilitate online graduate course "Professional Development in College and University Teaching".
- Maintain program website and internal file system.
- Support faculty in delivery of courses and co-facilitate professional development activities for 10 faculty and 120 students.
- Oversee program admissions process, including managing application system, coordinating with reviewers, and distributing admission offer letters.
- Co-develop and co-facilitate program orientation for onsite and online students.
- Communicate with prospective students and promote program at university events.

Graduate Teaching Assistant **Sept. 2016 - Aug. 2018**
Oregon State University, Corvallis, OR
Principles of Biology Laboratory (BI 211, 212, and 213)

- Prepared lectures and facilitated class discussions and laboratory activities for approximately 40 students.
- Created and graded summative assessments including quizzes and laboratory skills tests, as well as graded assessments prepared by laboratory coordinator.
- Developed formative assessments to gauge student understanding during each laboratory session.
- Held office hours to assist students with material from laboratory and associated lectures.
- Assisted with development of new learning activities and developed alternative lab for students unable to participate in outdoor fieldwork.

Graduate Teaching Assistant **Aug. 2014 – May 2015**

Bloomsburg University of Pennsylvania, Bloomsburg, PA

Concepts in Biology 1 Laboratory (BIO 113)

- Assisted faculty with facilitation of laboratory activities for 24 students.
- Held office hours to assist students with material from laboratory and associated lecture.

RESEARCH EXPERIENCE

Environmental Sciences Graduate Program, **Sept. 2015 - Present**
Oregon State University

Doctoral Research

Research Advisor: Dr. Katherine Lonnie

- Designed and currently implementing a greenhouse mesocosm study investigating the effects of invasive earthworms on soil carbon dynamics in agroecosystems, as well as interspecific competition and effects on crop biomass.
- Collection and analysis of soil samples.
- Analysis of earthworm and plant growth and comparison of earthworm monocultures with mixed species communities.

Environmental Sciences Graduate Program, **Sept. 2017 - June 2018**
Oregon State University

CIRTL Teaching-as-Research Project

Research Advisor: Dr. Jori Kyler

- Study assessing the use of a classroom assessment technique called "the muddiest point" and sent follow-up emails addressing areas of student confusion.
- Analyzed responses to the Colorado Learning Attitudes about Science Survey and faciliated quizzes and final grade data for BI 211 lab students.

Department of Biological and Allied Health Sciences, **Aug. 2013 - June 2015**
Bloomsburg University of Pennsylvania

Master's Research

Research Advisor: Dr. Clay Corbin

- Designed and implemented a field study on effects of Japanese Knotweed (*Fallopia japonica*) on riparian bird communities.
- Analyzed impacts on diversity, species composition, functional composition, and ecomorphological concordance between North American and Japanese bird communities.
- Published in *Journal of Ornithology* in 2017.

Department of Natural Sciences and Mathematics, **Jan. - Apr. 2013**

Keystone College

Senior Capstone Research

Research advisor: Dr. Jason Koval

- Design and implemented a greenhouse mesocosm study of the allelopathic properties of several compounds present in the leaves and rhizomes of Japanese Knotweed (*Fallopia japonica*).
- Quantified the uptake of compounds into target plant using fluorometry and assessed effects on root and shoot growth.
- Published in *Weed Research* in 2016.

PEER-REVIEWED PUBLICATIONS

Sasquatch H.T., C.E. Corbs, A.L. Potter, & S.T. Bigfoot. 2017. The effects of Japanese Knotweed on avian diversity and function in riparian habitats. Journal of Ornithology 158(1): 311-321. doi: 10.1007/s10336-016-1387-6

Sasquatch H.T. 2016. Comparison of the allelopathic effects and uptake of *Fallopia japonica* phytochemicals by *Raphanus sativus*. Weed Research 56: 97-101. doi: 10.1111/wre.12199

OTHER PUBLICATIONS

Sasquatch H.T. The Effects of Earthworms on Carbon Dynamics in Forest Soils, Reference Module in Earth Systems and Environmental Sciences, Elsevier. doi: 10.1016/B978-0-12-409548-9.10670-0

RESEARCH GRANTS

Oregon State University Agricultural Research Foundation. Introduced earthworms in Oregon: an investigation into the impacts on soil organic matter in agroecosystems (Co-PI: K Lonnie) *$12,500* **2019**

CONTRIBUTED CONFERENCE PRESENTATIONS

Sasquatch H.T. & J.J. Kyler. The muddiest point in a biology laboratory: does low-effort feedback affect test scores and attitudes about learning science? Society for the Advancement of Biology Education Research West Meeting, Irvine, CA. **2018**

Cheerio S., K. Wild, **H. Sasquatch**, T. Salamander, K. Monkey. Working with the Fisheries Profession to Prevent the Selective Spread of the Asian Jumping Worm (*Amynthas* spp) by Anglers through Bait and their Recreational Activities. American Fisheries Society Annual Meeting, Tampa, FL. **2017**

Sasquatch H.T., K. Monkey, S.S. Cherio, T. Salamander, D. Gorilla, N. Moss, J. Lemur. What role might per owners have on unused pharmaceutical and personal care products entering the aquatic environment? SerPIE One Health Conference on Pharmaceuticals and Personal Care Products, Huntsville, AL. **2016**

Sasquatch H.T. & C.E. Cougar. The effects of Japanese Knotweed on avian diversity and function in riparian corridors. Commonwealth of Pennsylvania University Biologists Meeting, Indiana, PA. **2015**

Sasquatch. H.T. Decomposition and Macroinvertebrate Colonization of Leaf Litter from Japanese Knotweed (Fallopia japonica). Commonwealth of Pennsylvania University Biologists Meeting, Bloomsburg, PA. **2014**

INVITED GUEST LECTURES

Species Distribution Modeling of Invasive Species. Online course module for ENSC 520: Environmental Analysis. Environmental Sciences Graduate Program, Oregon State University, Corvallis, OR. **2018**

Invasion ecology of Japanese Knotweed. Guest lecture for BIOL 421/521: Ecosystem Management. Department of Biological & Allied Health Sciences, Bloomsburg University of Pennsylvania, Bloomsburg, PA. **2015**

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Ornithological Society (2015 - Current)
- Association of Field Ornithologists (2013 - Current)
- Ecological Society of America (2017 - Current)

PROFESSIONAL CREDENTIALS

Center for the Integration of Research, Teaching and Learning

- Scholar level
- Practitioner level
- Associate level

HONORS & AWARDS

First Place Graduate Poster Presentation, Commonwealth of Pennsylvania University Biologists Meeting **2014**

Outstanding Graduate in Environmental Biology, Keystone College **2013**

Outstanding Research Award, Department of Natural Sciences & Mathematics, Keystone College **2013**

Excellence in Research Award, Keystone College Research & Creativity Celebration **2013**

RELATED PROFESSIONAL EXPERIENCE

Natural Resources Intern **March - Oct. 2017**
City of Salem. Salem, OR.

- Conducted invasive plant mapping and habitat assessments within major wetlands of the city of Salem.
- Assessed condition of green stormwater infrastructure facilities, collected soil samples, and created planting recommendations.
- Piloted a macroinvertebrate study within three city streams.

- Designed protocols and created scope documents for projects, as well as assisted with writing final reports.
- Presented the results of the projects to the city and residents at the end of the summer season.

Stormwater Intern **Sept. 2016 - Mar. 2017**

City of Salem. Salem, OR.

- Piloted an invasive plant mapping project along waterways within the city of Salem.
- Assisted with cleaning trash and debris from streams.
- Presented the results to the city at the end of the summer season.

Lead Avian Field Technician **June - Aug. 2015**

Cornell Lab of Ornithology. Ithaca, NY.

- Trained field crew in bird banding and blood drawing techniques for passerine bird species.
- Trained field crew in vegetative sampling techniques.
- Coordinated three small teams in locating, capturing, and drawing blood samples for two warbler species and conducting vegetation sampling.

Fish Technician **Mar - Sept. 2012**

Keystone College and Pennsylvania Fish Commission. La Plume, PA.

- Conducted water quality testing with an electronic sonde and titration techniques.
- Used electrofishing techniques to capture and count fish in small streams.
- Prepared a report of sampled streams for the Pennsylvania Fish Commission which was used to classify streams as trout fisheries.

RELATED PROFESSIONAL SKILLS

- Experience using Excel, R, SAS, and SPSS for statistical analysis, including univariate and multivariate analyses.
- Working knowledge of ArcMap for GIS analysis.
- Experience using Qualtrics and Google Forms to administer surveys.
- Computer programming experience using Java, C++, and Visual Basic.
- Web development experience, including knowledge of HTML, CSS, and JavaScript.
- Experience using fluorescence spectrophotometry and high pressure liquid chromatography for chemical analysis.
- Experience banding passerines and woodpeckers with USGS metals bands and color bands.
- Experience with mist netting and collecting blood samples from passerines and woodpeckers.