

# Harrison B Goldspiel

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## Education

### University of Maine

PhD Student, Ecology & Environmental Science

Orono, ME

Sep 2021–Present

### SUNY College of Environmental Science and Forestry

MSc, Ecology

Syracuse, NY

Jan 2016–May 2018

- Thesis: *Forest Legacy Effects on Amphibian Populations: Integrating Land and Life Histories in Conservation*

### Brandeis University

BA, Environmental Studies

Waltham, MA

Aug 2009–May 2013

- Minor in Health: Science, Society and Policy (HSSP)
- GPA: 3.8, Major GPA: 4.0; Magna Cum Laude

### School for International Training

Semester abroad in Comparative Ecology and Conservation

Quito, Ecuador

Jan 2012–May 2012

## Peer-reviewed publications

4. Tapia, WA, **Goldspiel, HB**, Gibbs, JP. Introduction of giant tortoises as a replacement “ecosystem engineer” to facilitate restoration of Santa Fe Island, Galapagos. *Restoration Ecology*. *In press*.
3. Kuehn, D, Gibbs, JP, **Goldspiel, HB**, Barr, B, Sampson, A, Moutenot, M, Badding, J, Stradtman, L. 2020. Using social media data and park characteristics to understand park visitation. *Journal of Park and Recreation Administration*. <https://doi.org/10.18666/JPra-2019-10035>.
2. **Goldspiel, HB**, Cohen, JB, McGee GG, and Gibbs, JP. 2019. Forest land-use history affects outcomes of habitat augmentation for amphibian conservation. *Global Ecology and Conservation* 19: e00686. <https://doi.org/10.1016/j.gecco.2019.e00686>.
1. **Goldspiel, HB**, Newhouse, AE, Powell, WA, and Gibbs, JP. 2019. Effects of transgenic American chestnut leaf litter on growth and survival of wood frog larvae. *Restoration Ecology* 27.2: 371–378. <https://doi.org/10.1111/rec.12879>.

## Book chapters

2. Tapia, WA, **Goldspiel, HB**, Sevilla, C, Málaga J, Gibbs, JP. 2021. Santa Fe Island: Return of Tortoises via a Replacement Species. In: Gibbs, JP, Cayot, L, Tapia, WA, editors. *Galapagos Tortoises, 1<sup>st</sup> Edition*. Academic Press, Cambridge, MA.
1. Gibbs, JP and **Goldspiel, HB**. 2021. Population Biology. In: Gibbs, JP, Cayot, L, Tapia, WA, editors. *Galapagos Tortoises, 1<sup>st</sup> Edition*. Academic Press, Cambridge, MA.

## Reports

1. Tapia, WA, **Goldspiel, HB**, Sevilla, C, and Gibbs, JP. 2019. Evaluación de la población de tortugas gigantes de la isla Española (*Chelonoidis hoodensis*) y la necesidad de mantener un programa de reproducción y crianza inicial en cautiverio. Report prepared for the Galapagos National Park Directorate. GTRI, Galapagos Conservancy. 47 Pages.

## Professional work experience

### Environmental Design and Research (<https://www.edrdpc.com/>)

Syracuse, NY

*Environmental Analyst (40 hrs per week)*

Apr–Aug 2021

- Performed wetland and stream delineations for renewable energy development projects
- Analyzed avian breeding and migratory data from point count surveys
- Prepared wildlife reports for permitting applications pursuant to Chapter XVIII (NYS ORES)

### Galapagos Conservancy ([www.galapagos.org](http://www.galapagos.org))

Virginia, USA/Galápagos, Ecuador

*Biologist (40 hrs per week)*

Sep 2018–Jul 2020

- Provided analytical and field support for the Giant Tortoise Restoration Initiative (GTRI):
  - Oversaw data management in the field and office for all wildlife survey projects
  - Prepared logistics and oversaw research activities on each multi-day field tour
  - Managed, analyzed, and summarized large and complex wildlife data sets
  - Contributed to writing and reviewing final reports and manuscripts

### Department of Environmental and Forest Biology, SUNY-ESF ([www.esf.edu](http://www.esf.edu))

Syracuse, NY

*Research Assistant, Gibbs Lab (40 hrs per week)*

Jan 2018–Jun 2019

- Modeled demographic responses of Blanding's turtles to headstarting in upstate NY
- Designed and implemented a tadpole dietary experiment for transgenic American chestnut
- Investigated drivers of social-ecological outcomes in Siberian herder-grassland systems
- Analyzed social media data (i.e., Flickr) to quantify forest tourism and recreation values

### Department of Environmental and Forest Biology, SUNY-ESF ([www.esf.edu](http://www.esf.edu))

Syracuse, NY

*Graduate Teaching Assistant (20 hrs per week)*

Jan 2016–Dec 2017

- Developed curriculum materials and provided teaching assistance for the following courses:  
Problem Solving in Conservation Biology, Dendrology, Herpetology, and Field Herpetology.

### Sierra Streams Institute (SSI) ([www.sierrastreamsinstitute.org](http://www.sierrastreamsinstitute.org))

Nevada City, CA

*AmeriCorps member, River Scientist (40 hrs per week)*

Nov 2014–Oct 2015

- Monitored long-term ecological research sites in the Deer Creek watershed
- Oversaw collection and management of data from aquatic wildlife surveys
- Coordinated watershed-scale citizen science monitoring and ecological restoration projects

### Archbold Biological Station ([www.archbold-station.org](http://www.archbold-station.org))

Venus, FL

*Restoration Ecology & Herpetology Research Intern (40 hrs per week)*

Mar–Oct 2014

- Captured, handled, and identified larval and adult amphibian, reptile, and invertebrate species
- Collected and managed data on wetland hydrology and biochemistry in seasonal ponds
- Investigated effects of fire management (time-since-fire) and feral hogs on amphibians

### Suburban Ecology Project, Brandeis University ([www.brandeis.edu](http://www.brandeis.edu))

Waltham, MA

*Research Intern in Forest Ecology and Management (20 hrs per week)*

Jan–May 2013

- Surveyed plant and land cover profiles of long-term forest monitoring plots in Weston, MA
- Apprenticed on education-based maple sugar, firewood, and conservation programs

## Teaching and mentoring experience

Mentored and provided research opportunities to various undergraduate students:

- |                    |                            |             |
|--------------------|----------------------------|-------------|
| ◦ Noah Garwood     | ◦ Alyssa Dugan             | ◦ James Lee |
| ◦ Caden Richardson | ◦ Allie Sholk              | ◦ Tim Bova  |
| ◦ Cassie Schlosser | ◦ Monica Banghart          |             |
| ◦ Britton Conway   | ◦ Vivan Viscosi Steinbaugh |             |

## Contributed presentations

**Goldspiel, HB, Tapia, WH, Cayot, LJ, Rueda, D, Sevilla, CS, Shoemaker, KT, and Gibbs, JP.** From near-extinction to recovery: conservation successes and challenges for the Española tortoise (*Chelonoidis hoodensis*) in Galápagos, Ecuador. Lecture given at the **2020 Latin American Congress for Conservation Biology (LACA)**, Puebla, Mexico.

**Goldspiel, HB, Nagel, LD, Schlesinger, MD, Waddell, J, Curatolo, J, and Gibbs, JP.** Long-term effects of landscape restoration on amphibian populations: Insights from a decade of monitoring constructed vernal pools in central New York. Lecture given at the **2019 New York State Wetlands Forum**, Saratoga Springs, NY, USA.

**Goldspiel, HB.** Spatial and historical drivers of pool-breeding amphibian occupancy in central New York. Poster presented at the **2017 Student Conference for Conservation Science**, New York, NY, USA.

**Goldspiel, HB.** Spatial and historical drivers of pool-breeding amphibian occupancy in central New York. Poster presented at the **2017 Joint Meeting of Ichthyologists and Herpetologists**, Austin, TX, USA. (*best poster in Ecology, Natural History, Distribution and Behavior*)

## Honors and awards

### Society for the Study of Amphibians and Reptiles

- Victor Hutchinson Student Poster Award in Ecology

### Chicago Herpetological Society

- Graduate Student Research Grant

\$500

### SUNY-College of Environmental Science and Forestry

- OIGS Travel Grant
- GSA Travel Grant
- GSA Research Grant

\$500

\$500

\$500

### Norcross Wildlife Foundation

- Research Equipment Grant

\$3000

**Total: \$5000**

## Professional memberships

|  |              |
|--|--------------|
| The Wildlife Society                             | 2020–Present |
| Society for Ecological Restoration               | 2018–Present |
| The Ecological Society of America                | 2017–Present |
| Society for Conservation Biology                 | 2017–Present |
| Society for the Study of Amphibians and Reptiles | 2016–Present |

## Service

Ad-hoc journal peer review: *Herpetological Conservation & Biology*, *Journal of Herpetology*

## Other experience

**Galapagos statsbeeRs**, co-founder and organizer

- Multi-institutional forum for workshopping and troubleshooting quantitative methods, coding languages, and reproducible research applications (e.g., RMarkdown, GitHub)

## Tutoring

- RStudio, Data Visualization, Statistics, Ecology

## Bike & Build ([www.bikeandbuild.org](http://www.bikeandbuild.org))

- Fundraised over \$4,600 and raised awareness about affordable housing issues in the US
- Rode from New Hampshire to Vancouver (3767 mi.), with 30 other cyclists in 2013
- Facilitated discussions about affordable housing and bike safety in towns across the US

## Additional skills and certifications

- Wilderness First Responder (NOLS, July 2019-2022)
- CPR & First Aid (NOLS, July 2019-2022)
- Multi-day backpacking and backcountry trip planning (5+ years, 500+ miles)
- Statistical and geospatial software: RStudio, ArcGIS, QGIS, GitHub, Microsoft Office
- Spanish proficient (10+ years)
- Wetland/stream delineations (100+ hours)