Harrison B Goldspiel

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Education

University of Maine — Orono, ME
PhD Student, Ecology & Environmental Science — Sep 2021–Present

SUNY College of Environmental Science and Forestry — Syracuse, NY
MSc, Ecology — Jan 2016–May 2018
- Thesis: *Forest Legacy Effects on Amphibian Populations: Integrating Land and Life Histories in Conservation*

Brandeis University — Waltham, MA
BA, Environmental Studies — Aug 2009–May 2013
- Minor in Health: Science, Society and Policy (HSSP)

School for International Training — Quito, Ecuador
Semester abroad in Comparative Ecology and Conservation — Jan 2012–May 2012

Manuscripts in progress

Goldspiel, HB, Barr, B, Badding, J, Kuehn, D. Using crowdsourced photography and automated image classification to understand spatiotemporal patterns of nature-based recreation in large rural landscapes. *In review.*

Peer-reviewed publications

4. Tapia, WA, **Goldspiel, HB**, Gibbs, JP. 2022. Introduction of giant tortoises as a replacement "ecosystem engineer" to facilitate restoration of Santa Fe Island, Galapagos. *Restoration Ecology* 30.1: e13476. https://doi.org/10.1111/rec.13476

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, 1st Edition*. Academic Press, Cambridge, MA.

1. Gibbs, JP and **Goldspiel, HB.** 2021. Population Biology. In: Gibbs, JP, Cayot, L, Tapia, WA, editors. *Galapagos Tortoises, 1st Edition*. Academic Press, Cambridge, MA.

Reports

3. Tapia, WA, **Goldspiel, HB**, Sevilla, C, and Gibbs, JP. 2021. Protocolo para Monitoreo Ecológico en la Isla Santa Fe, Galápagos. Galápagos Conservancy y Dirección del Parque Nacional Galápagos através de la Iniciativa para la Restauración de las Tortugas Gigantes Puerto Ayora, Galápagos, Ecuador. 28 Pages.

2. 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.

1. Pérez-Juan, CM, **Goldspiel, HB**, Cuevas, J, and Tapia, WA. 2019. Estudio preliminar sobre la presencia y distribución de Chelonoidis porteri en las fincas de la zona sudeste colindantes al Parque Nacional Galápagos. Report prepared for the Galapagos National Park Directorate. GTRI, Galapagos Conservancy. 5 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) *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) *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) *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) *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) *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) *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
- Caden Richardson
- Cassie Schlosser
- Britton Conway
- Alyssa Dugan
- Allie Sholk
- Monica Banghart
- Vivan Viscosi Steinbaugh
- James Lee
- Tim Bova

Invited lectures

Goldspiel, HB. 2021. Restoring giants: conservation successes and challenges for island rewilding in Galápagos, Ecuador. *Department of Integrative Biology, University of Texas-Austin*. Virtual.

Conference presentations

Goldspiel, HB, Barr, B, Badding, J, and Kuehn, D. 2022. "Using crowdsourced photography and automated image classification to understand spatiotemporal patterns of nature-based recreation in the Northern Forest, USA." Talk given at the North American Congress for Conservation Biology (NACCB). July 19, 2022. Reno, NV, USA.

Goldspiel, HB, Tapia, WH, Cayot, LJ, Rueda, D, Sevilla, CS, Shoemaker, KT, and Gibbs, JP. 2020. "From near-extinction to recovery: conservation successes and challenges for the Española tortoise (*Chelonoidis hoodensis*) in Galápagos, Ecuador." Talk given at the *Latin American Congress for Conservation Biology* (LACA). July 1–3, 2020. Virtual.

Goldspiel, HB, Nagel, LD, Schlesinger, MD, Waddell, J, Curatolo, J, and Gibbs, JP. 2019. "Long-term effects of landscape restoration on amphibian populations: Insights from a decade of monitoring constructed vernal pools in central New York." Talk given at the *New York State Wetlands Forum*. April 2–3, 2019. Saratoga Springs, NY, USA.

Goldspiel, HB. 2017. "Spatial and historical drivers of pool-breeding amphibian occupancy in central New York." Poster presented at the *Student Conference for Conservation Science*. October 11–13, 2017. New York, NY, USA.

Goldspiel, HB. 2017. "Spatial and historical drivers of pool-breeding amphibian occupancy in central New York." Poster presented at the *Joint Meeting of Ichthyologists and Herpetologists*. July 12–16, 2017. 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 $500
- GSA Travel Grant $500
- GSA Research Grant $500

Norcross Wildlife Foundation
- Research Equipment Grant $3000

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

Reviewer of manuscripts submitted to: *Global Ecology & Conservation* (1)*, Herpetological Conservation & Biology* (1), *Journal of Herpetology* (1)*, Journal of Wildlife and Fisheries Management* (1)*, Northeastern Naturalist* (1)

Other experience

Galapagos statsbeeRs, co-founder and organizer
- Collaborative 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)
- 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)