



CAREER OBJECTIVE

My research interest lies in the nexus of nature and humans, especially regarding the effects of introduced biota in complex and layered landscapes that are continually shaped by human activities—past and present. Currently, I study the diet of introduced, invasive house mouse (*Mus musculus*) populations in insular ecosystems. Using a range of techniques, from next-generation sequencing to stable isotopes, I seek to understand how this widespread rodent species impacts island biota and how to maximize insular ecosystem recovery. To reach this goal, I have obtained a B.Sc. degree in Environmental Science and a M.Sc. degree in Biological Sciences. Additionally, I am committed to growing and supporting more inclusive communities through science communication and education; meaningful and effective science requires a diversity of perspectives, opportunities, and engagement.

EDUCATION

Ph.D. Ecology and Evolutionary Biology

2021 – present

Department of Ecology and Evolutionary Biology

University of Tennessee, Knoxville, TN

Dissertation: *Uncovering the impacts of invasive house mice on island ecosystems*

Advisor: Dr. Daniel Simberloff; Committee: Drs. Holly P. Jones, Charles Kwit, Michael Polito, Kimberly Sheldon

Advancement to Candidacy: 4/18/2023

GPA: 4.0

M.Sc. Biological Sciences

2018 – 2021

Department of Biological Sciences

Northern Illinois University, DeKalb, IL

Thesis: *Fly on the wall: comparing arthropod communities between islands with and without house mice (Mus musculus)*

Advisor: Dr. Holly P. Jones; Committee: Drs. Richard B. King, Wesley Swingley

GRE Scores: Verbal Reasoning, 160 (86%); Quantitative Reasoning, 159 (73%); Analytical Writing, 6.0 (99%)

GPA: 4.0 (*Summa cum laude*)

B.Sc. Environmental Science with Biologic Science Emphasis

2010 – 2014

Undergraduate Minors: French, Wildlife Resources

Environmental Science Program

University of Idaho, Moscow, ID

Senior Thesis: *Stranger danger: interspecific vocal responses of select diurnal passerines to indirect predator alarm calls*

Advisors: Drs. Jan Boll, Jackie Maximillian, Michael Jennings, Kerri Vierling, Janet Rachlow

GPA: 4.0 (*Summa cum laude*)

PUBLICATIONS

ACCEPTED, IN PRESS, AND PUBLISHED MANUSCRIPTS

12. **Holthuijzen, W. A.**, C. C. Antaky, E. N. Flint, J. H. Plissner, C. A. Wolf, and H. P. Jones. 2023. A next-generation sequencing study of arthropods in the diet of Laysan Teal *Anas laysanensis*. *Wildfowl* 73:118-133. ISSN: 2052-6458.
11. **Holthuijzen, W. A.**, E. N. Flint, S. J. Green, J. H. Plissner, D. Simberloff, D. Sweeney, C. A. Wolf, and H. P. Jones. 2023. An invasive appetite: combining molecular and stable isotope analyses to reveal the diet of introduced house

- mice (*Mus musculus*) on a small, subtropical island. *PLoS ONE* 18(10):e0293092. DOI: 10.1371/journal.pone.0293092.
10. Sandin, S. A., P. A. Becker, C. Becker, K. Brown, N. G. Erazo, C. Figuerola, R. N. Fisher, A. M. Friedlander, T. Fukami, N. A. J. Graham, D. S. Gruner, N. D. Holmes, **W. A. Holthuijzen**, H. P. Jones, M. Rios, A. Samaniego, W. Sechrest, B. X. Semmens, H. E. Thornton, R. Vega Thurber, C. N. Wails, C. A. Wolf, and B. J. Zgliczynski. 2022. Harnessing island–ocean connections to maximize marine benefits of island conservation. *PNAS* 119(51): e2122354119. DOI: 10.1073/pnas.2122354119.
 9. **Holthuijzen, W. A.**, S. Durham, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. A. Wolf, and H. P. Jones. 2021. Fly on the wall: comparing arthropod communities between islands with and without house mice (*Mus musculus*). *Pacific Science* 75(3):371–394. DOI: 10.2984/75.3.6. (*Undergraduate collaborator)
 8. **Holthuijzen, W. A.** 2021. Fatal fashions and caring actions: Florence Merriam Bailey and the rise of avian conservation. *International Review of Environmental History* 7(2):47–63. DOI: 10.22459/IREH.07.02.2021.02.
 7. Wails, C. N., K. Baker, R. Blackburn, A. Del Valle, J. Heise, H. Herakovich, **W. A. Holthuijzen**, M. P. Nissenbaum, L. Rankin, K. Savage, J. P. Vanek, and H. P. Jones. 2021. Assessing changes to ecosystem function following invasion by *Spartina alterniflora* and *Phragmites australis*: a meta-analysis. *Biological Invasions* 23:2695–2709. DOI: 10.1007/s10530-021-02540-5.
 6. Taylor, R. V., **W. A. Holthuijzen**, A. Humphrey, and E. Posthumus. 2020. Using phenology data to improve control of invasive plant species: a case study from Midway Atoll NWR*. *Ecological Solutions and Evidence* 1(1):1–7. DOI: 10.1002/2688-8319.12007. (*Editor's Choice)
 5. **Holthuijzen, W. A.** 2018. Stranger danger: acoustic response of the Veery (*Catharus fuscescens*) via heterospecific eavesdropping on the Tufted Titmouse (*Baeolophus bicolor*). *Wilson Journal of Ornithology* 130(1):168–179. DOI: 10.1676/16-149.1.
 4. **Holthuijzen, W. A.**, and B. Baumgaertner. 2017. Non-epistemic values and concerns about evolutionary mindsets in conservation policy. *Global Policy* 8(1):426–428. DOI: 10.1111/1758-5899.12469.
 3. Baumgaertner, B., and **W. A. Holthuijzen**. 2016. On non-epistemic values in conservation biology. *Conservation Biology* 31(1):48–55. DOI: 10.1111/cobi.12756.
 2. **Holthuijzen, W. A.** 2016. Using soundscape ecology in design and function. *Contemporary Aesthetics* 14(2016):online.
 1. **Holthuijzen, W. A.**, and J. R. Maximillian. 2011. Dry, hot, and brutal: climate change and desertification in the Sahel of Mali. *Journal of Sustainable Development in Africa* 13(7):245–268.

IN PREPARATION, IN REVIEW, AND IN REVISION

1. Holthuijzen, W. A., and D. Simberloff. In preparation. Comparing compound-specific versus bulk tissue stable isotope analysis to reveal the diet of an invasive rodent species. Will be submitted to: *Ecosphere*.
2. Hanski, E., A. Raulo, S. Joseph, **W. A. Holthuijzen**, and S. C. L. Knowles. In preparation. Drivers of gut microbiota variation in an island population of house mouse, *Mus musculus domesticus*. Will be submitted to: TBD.
3. Nissenbaum, M. P., S. V. Burke, L. M. Orton, **W. A. Holthuijzen**, and M. R. Duvall. In preparation. Dispelling the mirage of C₄ driven drought tolerance in Poaceae: a phylogenomic study. Will be submitted to: *American Journal of Botany*.

TECHNICAL REPORTS

1. **Holthuijzen, W. A.** 2022. USVI offshore cay rodent detection pilot study: report. Unpublished report prepared for the Department of Planning & Natural Resources – Division of Fish and Wildlife, St. Thomas, U.S. Virgin Islands.
2. **Holthuijzen, W. A.**, and D. Simberloff. 2022. Monitoring the ecological impacts of invasive rodents on islands. IACUC Protocol Number 2905-0522. Approved by the University of Tennessee Institutional Animal Care and Use Committee.
3. **Holthuijzen, W. A.** 2022. Simberloff Lab chemical hygiene plan. Unpublished plan prepared for the University of Tennessee, Knoxville, Tennessee.

4. Becker, P., S. Sandin, C. Becker, N. Erazo, R. Fisher, A. Friedlander, T. Fukami, N. Graham, D. Gruner, N. Holmes, **W. Holthuijzen**, H. Jones, M. Rios, W. Sechrest, B. Semmens, H. Thornton, R. Vega Thurber, and C. Wails. 2021. Island ocean connections: exploring land-sea linkages in the context of invasive mammal management. White paper/report from Island Conservation, Santa Cruz, California.
5. **Holthuijzen, W. A.**, E. N. Flint, H. P. Jones, J. H. Plissner, and C. A. Wolf. 2020. Midway Atoll NWR Seabird Protection Project: emerald beetle (*Protaetia pryeri*) monitoring results. Unpublished report prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
6. **Holthuijzen, W. A.** 2018. Wetland water quality monitoring: Midway Atoll National Wildlife Refuge. Unpublished report prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
7. Humphrey, A., **W. A. Holthuijzen**, R. V. Taylor, D. Norwood, and R. Peyton. 2017. Final programmatic report: bringing back the albatross to Midway Atoll. NFWF Grant Project # 28379 2011-0070-000. Unpublished report prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i and National Fish and Wildlife Foundation, Washington, DC.
8. **Holthuijzen, W. A.** 2017. Herbicide efficacy spray trials methods and summary phase 1: target species – wild poinsettia (*Euphorbia cyathophora*). Unpublished report prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
9. **Holthuijzen, W. A.** 2017. Herbicide efficacy spray trials methods and summary phase 2: target species – wild poinsettia (*Euphorbia cyathophora*). Unpublished report prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
10. **Holthuijzen, W. A.** 2016. Pacific National Wildlife Refuges and Marine National Monuments enhancement strategy: scenarios to streamline management, operations, logistics, budgets, and opportunities for relevancy and constituency building. Unpublished report prepared for the National Wildlife Refuge Association, Washington, DC, and the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.

HANDBOOKS, GUIDES, AND PROTOCOLS

1. **Holthuijzen, W. A.** 2023. UTK EEB Undergraduate Research symposium guide. Unpublished guide prepared for GREBE (Graduate Students in Ecology, Behavior, and Evolution) and the Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, Tennessee.
2. **Holthuijzen, W. A.** 2022. EEB undergraduate mentee guide. Unpublished guide prepared for GREBE (Graduate Students in Ecology, Behavior, and Evolution) and the Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, Tennessee. Available via [GREBE](#).
3. **Holthuijzen, W. A.** 2022. EEB graduate mentor guide. Unpublished guide prepared for GREBE (Graduate Students in Ecology, Behavior, and Evolution) and the Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, Tennessee. Available via [GREBE](#).
4. **Holthuijzen, W. A.**, and K. J. Rosenberger. 2019. Midway Atoll NWR invertebrate identification guide. Guide prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i, and Northern Illinois University, DeKalb, Illinois. Available via [ResearchGate](#).
5. **Holthuijzen, W. A.** 2017. Common plants of Midway Atoll NWR: sedges, grasses, forbs, woody shrubs, vines, and trees. 2nd edition. Guide prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i. Available via [ResearchGate](#).
6. **Holthuijzen, W. A.** 2017. Invasive plant control specialist job protocols handbook. Unpublished handbook prepared for Kupu, Honolulu, Hawai'i and the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
7. **Holthuijzen, W. A.**, M. E. Dalton, K. N. Courtot, A. Humphrey, and M. H. Reynolds. 2015. Laysan Duck captive care flowchart. Unpublished guide prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.
8. **Holthuijzen, W. A.**, M. E. Dalton, K. N. Courtot, A. Humphrey, and M. H. Reynolds. 2015. Midway Atoll NWR Laysan Duck resight and atoll-wide survey protocol. Unpublished protocol prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.

9. **Holthuijzen, W. A.** 2015. Common plants of Midway Atoll NWR: sedges, grasses, forbs, woody shrubs, vines, and trees. 1st edition. Unpublished guide prepared for the U.S. Fish and Wildlife Service, Honolulu, Hawai'i.

GRANTS AND AWARDS (\$241,023)

SCHOLARSHIPS AND FELLOWSHIPS (\$210,070)

- 2021 – 2023 | University of Tennessee Fellowship for Graduate Excellence (\$30,000)
2018 – 2023 | National Science Foundation Graduate Research Fellowship (\$138,000)
2017 | Segal AmeriCorps Education Award (\$5,775)
2013 | Udall Scholarship (\$5,000)
2011 – 2013 | Margrit von Braun Scholarship (\$900)
2010 – 2014 | University of Idaho Presidential Scholarship (\$12,000)
2010 – 2014 | Idaho Power Scholarship (\$4,000)
2010 – 2014 | State of Idaho Postsecondary Credit Scholarship / Idaho Promise-A Scholarship (\$12,000)
2010 – 2012 | Idaho Robert E. Lee Promise-B Scholarship (\$895)
2010 – 2011 | University of Idaho Achievement Scholarship (\$1,500)

RESEARCH GRANTS (\$18,473)

- 2022 | University of Tennessee, Department of Ecology & Evolutionary Biology Graduate Research Support Grant (\$3,000)
2022 | U.S. Fish and Wildlife Service – Midway Atoll NWR *Anas laysanensis* Next-Generation Sequencing Diet Study and Midway Seabird Protection Project Non-Target Species Mitigation (\$6,693)
2021 | Island Conservation – Midway Atoll NWR *Mus musculus* Next-Generation Sequencing Diet Study (\$500)
2020 | Sigma Xi Grant in Aid of Research (\$997)
2018 | Northern Illinois University Elwood and Ruth Briles Memorial Fund (\$3,333)
2017 | Shark Research Institute – Midway Atoll NWR Water Quality Monitoring (\$950)
2010 | University of Idaho Sustainability Center Student-Led Grant (\$3,000)

TRAVEL SUPPORT (\$8,770)

- 2024 | University of Tennessee, Graduate Student Senate, Travel Award Spring/Summer 2024 (\$2,450)
2023 | University of Tennessee, Graduate Student Senate, Travel Award Spring/Summer 2023 (\$2,400)
2022 | University of Tennessee, Graduate Student Senate, Travel Award Spring/Summer 2022 (\$2,000)
2022 | University of Tennessee Ecology & Evolutionary Biology Department, Graduate Researchers in Ecology, Behavior, and Evolution Travel Award Spring/Summer 2022 (\$1,000)
2020 | Northern Illinois University Graduate School Travel Award Spring Semester (\$600)
2019 | Northern Illinois University Graduate School Travel Award Spring Semester (\$320)

PROJECT FUNDING FOR MENTORED UNDERGRADUATE STUDENTS (\$3,710)

- 2020 | Northern Illinois University Spring 2020 Student Engagement Fund (\$2,260)
2019 | Northern Illinois University Fall 2019 Student Engagement Fund (\$250)
2019 | Northern Illinois University Summer 2019 Student Engagement Fund (\$1,200)

AWARDS AND HONORS

- 2023 | Society of Island Biology 2023 Conference: Best Talk – Early Career Researcher
2023 | 50th Annual Meeting of the Pacific Seabird Group: Chair's Choice Award
2023 | 50th Annual Meeting of the Pacific Seabird Group: Best Poster Presentation, PhD Student Category
2022 | Hawai'i Conservation Conference (virtual): Outstanding Graduate Student Oral Presentation (\$400)

- 2022 | British Ecological Society's *Ecological Solutions and Evidence*: [Chico Mendes Prize Shortlisted Candidate](#), Best Practice Insights published by an Early Career Practitioner
- 2022 | 49th Annual Meeting of the Pacific Seabird Group (virtual): Best Oral Presentation, PhD Student Category
- 2021 | Northern Illinois University: Outstanding Graduate Student Award
- 2021 | Northern Illinois University: Biological Sciences M.S. George L. Terwilliger Award (\$1,000)
- 2021 | Northern Illinois University: Biological Sciences Outstanding Graduate Student Award
- 2021 | Northern Illinois University: Outstanding Woman and Gender Advocacy Student Award
- 2019 | Society for Ecological Restoration Midwest Great Lakes Chapter Annual Scientific Meeting: Best Student Presentation (\$100)
- 2019 | Northern Illinois University Phi Sigma Research Symposium: Best Graduate Research Award (\$150)
- 2014 | University of Idaho: Outstanding Environmental Science and Water Resources Undergraduate Student
- 2014 | University of Idaho: 1st Place 2014 Environmental Science Poster Competition
- 2014 | Moscow, Idaho: Mayor's Earth Day Award
- 2013 | University of Idaho: Alumni Award for Excellence
- 2011 | University of Idaho: Outstanding Freshman of the Year/Valkyrie Award
- 2010 – 2014 | University of Idaho: Dean's List
- 2010 – 2014 | University of Idaho: Honor's College Member
- 2010 | Idaho Syringa Girls State: Governor
- 2010 | Mountain View High School Graduation Ceremony: Commencement Speech
- 2009 | Idaho Power Students for Energy Efficiency Program: Certificate of Achievement in Energy Efficiency
- 2009 | Idaho Syringa Girls State: Governor Elect
- 2009 | Capital Scholar: Boise State University
- 2006 | Boise, Idaho Mayor's Award to Youth 2006: Leaders of Today Saluting the Leaders of Tomorrow

PROFESSIONAL PRESENTATIONS

ORAL PRESENTATIONS

- 2024 | **Holthuijzen, W. A.**, S. I. Gabriel, W. Jolley, K. P. Oh, A. J. Piaggio, C. A. Wolf, and D. Simberloff. "Failed mouse eradication on Sand Island: a case of novel rodenticide resistance?" 7th International Mouse Meeting, Vila do Conde, Portugal.
- 2023 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, D. Simberloff, C. A. Wolf, and H. P. Jones. "An invasive appetite: combining molecular and stable isotope analyses to reveal the diet of introduced house mice (*Mus musculus*) on a small, subtropical island." Society of Island Biology 2023 Conference, Lipari, Italy.
- 2022 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, D. Simberloff, C. A. Wolf, and H. P. Jones. "Uncovering the diet of invasive house mice on Pihemanu - Kuaihelani (Midway Atoll) and implications for ecosystem recovery post-eradication." 2022 Hawai'i Conservation Conference (virtual). (*Undergraduate collaborator)
- 2022 | **Holthuijzen, W. A.**, E. N. Flint, S. J. Green, J. H. Plissner, K. J. Rosenberger*, D. Simberloff, D. Sweeney, C. A. Wolf, and H. P. Jones. "Combining stable isotope and molecular analyses to uncover the diet of invasive house mice (*Mus musculus*) on a subtropical atoll." 6th International Mouse Conference, Montpellier, France. (*Undergraduate collaborator)
- 2022 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, D. Simberloff, C. A. Wolf, and H. P. Jones. "Mice to eat you: uncovering the diet of invasive house mice." 49th Annual Meeting of the Pacific Seabird Group (virtual). (*Undergraduate collaborator)
- 2021 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, C. A. Wolf, and H. P. Jones. "Mice to eat you: uncovering the diet of invasive house mice." 3rd World Seabird Conference (virtual).
- 2021 | **Holthuijzen, W. A.** "Fly on the wall: comparing arthropod communities between islands with and without house mice (*Mus musculus*)." M.Sc. Thesis Defense Presentation, Northern Illinois University, DeKalb, Illinois.

- 2020 | Nissenbaum, M. P., S. V. Burke, L. M. Orton, **W. A. Holthuijzen**, and M. R. Duvall. "Dispelling the mirage of C₄ driven drought tolerance in Poaceae: a phylogenomic study." Botany 2020 (Virtual Botany Conference).
- 2020 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. N. Wails, C. A. Wolf, and H. P. Jones. "A tale of two islands: comparing insular arthropod communities to understand ecological effects of invasive house mice (*Mus musculus*)." Midwest Ecology and Evolution Conference, Macomb, Illinois. (*Undergraduate collaborator)
- 2020 | Nissenbaum, M. P., S. V. Burke, L. M. Orton, **W. A. Holthuijzen**, and M. R. Duvall. "Dispelling the mirage of C₄ driven drought tolerance in Poaceae: a phylogenomic study." Midwest Ecology and Evolution Conference, Macomb, Illinois.
- 2020 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. N. Wails, C. A. Wolf, and H. P. Jones. "Mice to eat you: uncovering the diet of invasive house mice." 47th Annual Meeting of the Pacific Seabird Group, Portland, Oregon. (*Undergraduate collaborator)
- 2019 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. A. Wolf, and H. P. Jones. "Fly on the wall: monitoring ecological impacts of invasive house mice via arthropods." Society for Ecological Restoration Midwest Great Lakes Chapter Annual Scientific Meeting, Pella, Iowa. (*Undergraduate collaborator)
- 2018 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, C. A. Wolf, and H. P. Jones. "Hiding in plain sight: ecological impacts of the invasive house mouse on a subtropical atoll." Northern Illinois University Biology Department Seminar Series, DeKalb, Illinois.
- 2015 | Reynolds, M. H., K. N. Courtot, and **W. A. Holthuijzen**. "Translocation of wild Laysan Teal to Kure Atoll: species conservation overview and update." Hawai'i Conservation Conference, Papahānaumokuākea Symposium, University of Hawai'i, Hilo, Hawai'i.
- 2014 | **Holthuijzen, W. A.** "Stranger danger: interspecific response of selected diurnal passerines to indirect predator alarm calls in the Hudson Valley, New York." University of Idaho Innovation Showcase, Moscow, Idaho.

POSTERS

- 2023 | **Holthuijzen, W. A.**, C. Antaky, E. N. Flint, J. H. Plissner, C. A. Wolf, and H. P. Jones. "Determining arthropod consumption by Laysan Ducks to inform non-target mitigation efforts during rodent eradication." 50th Annual Meeting of the Pacific Seabird Group, La Jolla, California.
- 2022 | **Holthuijzen, W. A.** "Mice to eat you: uncovering the diet of invasive house mice on Pihemanu - Midway Atoll NWR." 8th World Seabird Twitter Conference (#WSTC8).
- 2020 | Rosenberger*, K. J., **W. A. Holthuijzen**, and H. P. Jones. "Trophic position and dietary carbon sources of invasive mice." 6th World Seabird Twitter Conference (#WSTC6). (*Undergraduate collaborator)
- 2020 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. N. Wails, C. A. Wolf, and H. P. Jones. "Mice to eat you: uncovering the diet of invasive house mice on Midway Atoll National Wildlife Refuge." 6th World Seabird Twitter Conference (#WSTC6). (*Undergraduate collaborator)
- 2020 | Rosenberger*, K. J., **W. A. Holthuijzen**, and H. P. Jones. "Trophic position and dietary carbon sources of Invasive mice." Undergraduate Research and Artistry Day, Northern Illinois University, DeKalb, Illinois. (*Undergraduate collaborator)
- 2020 | Rosenberger*, K. J., **W. A. Holthuijzen**, and H. P. Jones. "Trophic position and dietary carbon sources of invasive mice." Midwest Ecology and Evolution Conference, Macomb, Illinois. (*Undergraduate collaborator)
- 2019 | Wails, C. N., **W. A. Holthuijzen**, L. Rankin, and H. P. Jones. "Seabird conservation abroad: identifying threats and promoting recovery." Sand Bluff Bird Observatory Bird Fest, Sand Bluff Bird Observatory, Rockton, Illinois.
- 2019 | Rosenberger*, K. J., **W. A. Holthuijzen**, and H. P. Jones. "Responses of orders hymenoptera and coleoptera to invasive mice on Midway Atoll National Wildlife Refuge." Undergraduate Research and Artistry Day, Northern Illinois University, DeKalb, Illinois. (*Undergraduate collaborator)
- 2019 | Pacheco Grande*, E., S. Naughton*, **W. A. Holthuijzen**, and H. P. Jones. "Of mice and bugs: the impacts of invasive house mice (*Mus musculus*) on arthropod diversity on Midway Atoll National Wildlife Refuge."

Undergraduate Research and Artistry Day, Northern Illinois University, DeKalb, Illinois. (**Undergraduate collaborators*)

- 2019 | **Holthuijzen, W. A.**, E. N. Flint, J. H. Plissner, K. J. Rosenberger*, C. A. Wolf, and H. P. Jones. "Fly on the wall: monitoring ecological impacts of invasive house mice via arthropod communities." Northern Illinois University, Phi Sigma Research Symposium, DeKalb, Illinois. (**Undergraduate collaborator*)
- 2014 | **Holthuijzen, W. A.** "Stranger danger: interspecific response of selected diurnal passerines to indirect predator alarm calls in the Hudson Valley, New York." University of Idaho Environmental Science Undergraduate Senior Thesis Showcase, Moscow, Idaho.
- 2012 | Davis, M., **W. A. Holthuijzen**, and P. Porneluzi. "Abundance of red-shouldered hawks (*Buteo lineatus*) and broad-winged Hawks (*Buteo platypterus*) as potential nest predators among different forest management treatments." University of Missouri Summer Undergraduate Research and Creative Achievements Forum, Columbia, Missouri.
- 2008 | **Holthuijzen, W. A.** "Analyzing restoration efforts of a degraded stream bed through cross sections, vegetation cover, and bank stability." F.I.R.E. Up (Field Inquiry Research Experience) Presentation Forum, Bureau of Land Management, Boise, Idaho.

ATTENDANCE ONLY

- 2024 | 51st Annual Meeting of the Pacific Seabird Group: Seattle, Washington.
- 2022 | IsoBank Data Ingest Workshop 2022 (virtual).
- 2021 | BRC16/19 and SAMBA International Meeting 2021 – Biodiversity Monitoring and Mapping (virtual).
- 2021 | 48th Annual Meeting of the Pacific Seabird Group (virtual).
- 2020 | 4th Annual Environmental DNA Technical Exchange Workshop (virtual).
- 2020 | International Statistical Ecology Conference: Kensington, Australia (virtual).
- 2020 | Plant Phenological Data Mini-Workshop: Gainesville, Florida (virtual).
- 2014 | Ecological Society of America Annual Meeting: Sacramento, California.
- 2012 | Ecological Society of America Annual Meeting: Portland, Oregon.

TEACHING AND MENTORING

TEACHING EXPERIENCE

2023 | **Invasion Biology (EEB 430)**

University of Tennessee: Knoxville, Tennessee

Assisted with online course content and scheduling/organizing Zoom meetings; presented two guest lectures focused on the history of biological invasions on Midway Atoll NWR and the impacts of invasive mice on island ecosystems; graded presentations, written reports, and exams.

2022 | **Field Botany (EEB 330)**

University of Tennessee: Knoxville, Tennessee

Prepared and organized plant specimens to instruct students on botany and plant systematics; facilitated and aided with field trips to sites around Knoxville to identify plant species; created and graded weekly quizzes and assignments, as well as exams and special projects.

2022 | **Ecology (BIOL 260)**

University of Tennessee: Knoxville, Tennessee

Assisted a classroom of +70 students, providing help, feedback, and grades on homework assignments and exams.

2021 | **Biological Literacy (BIOL 150)**

University of Tennessee: Knoxville, Tennessee

Instructed 3 sections of students (>20 students/section) on topics related to biological literacy, including the identification and development of research questions, hypotheses, methods diagrams, and system interactions models, as well as reading comprehension, inference, and prediction based on analysis of peer-reviewed texts.

2017 – 2018 | Substitute Teacher (Grades 9–12)

West Ada School District: Meridian and Boise, Idaho

Implemented lesson plans, while ensuring the integrity of academic time and in a manner which motivated students to learn and participate; organized students for effective instruction.

2013 | FREN 101: Elementary French

University of Idaho: Moscow, Idaho

Taught labs in conjunction with FREN 101 lecture to undergraduate students, developed lab course materials, and graded assignments and lab quizzes.

GUEST LECTURES

- 2023 | “Ecology and impacts of a widespread invader: the house mouse (*Mus musculus*).” University of Tennessee, Invasion Biology, EEB 430, Knoxville, Tennessee.
- 2023 | “An invasion fecesfest: Midway Atoll NWR.” University of Tennessee, Invasion Biology, EEB 430, Knoxville, Tennessee.
- 2022 | “Testing the theory of island biogeography.” University of Tennessee, Theory and Methods, EEB 205, Knoxville, Tennessee.
- 2022 | “Hiding in plain sight: investigating impacts of invasive house mice (*Mus musculus*) on islands.” University of Tennessee, Ecology & Evolutionary Biology Graduate Recruitment (virtual), Knoxville, Tennessee.
- 2020 | “Multivariate statistical techniques and analysis.” Northern Illinois University, R Learning Community (virtual), DeKalb, Illinois.
- 2020 | “Midway, mice, and more! Exploring the layered landscape of the world’s largest albatross colony.” Northern Illinois University, Conservation Biology, ENV5 406, DeKalb, Illinois.
- 2020 | “Udall alumni discussion panel.” Virginia Commonwealth University, Paths to Environmental Leadership, ENV5 291, Richmond, Virginia.
- 2020 | “Undergraduate research opportunities.” Northern Illinois University, Exploring the Environmental Studies Major ENV5 100, DeKalb, Illinois.
- 2019 | “Undergraduate research opportunities.” Northern Illinois University, Exploring the Environmental Studies Major ENV5 100, DeKalb, Illinois.
- 2018 | “Find your albatross: a journey in STEM.” Advancement Via Individual Determination (AVID) classes, Mountain View High School, Meridian, Idaho.
- 2018 | “Turning over a new leaf: restoring the world’s largest albatross colony.” Orma J. Smith Natural History Museum Seminar Series, College of Idaho, Caldwell, Idaho.
- 2018 | “Turning over a new leaf: restoration of Midway Atoll NWR.” University of Idaho, Ornithology WLF 482 course, Moscow, Idaho.
- 2014 | “Biodiversity: a question of value.” University of Idaho, Environmental Philosophy PHIL 452/552 course, Moscow, Idaho.
- 2009 | “Reflections on research with F.I.R.E. Up.” Mountain View High School, F.I.R.E. Up (Field Inquiry Research Experience for Students) 2009 course, Meridian, Idaho.

MENTORED UNDERGRADUATE RESEARCH PROJECTS

**Undergraduate research project, †Undergraduate research credit*

- 2020 – 2021 | **Dana Romaniak***, **Michaela Plagwitz***: Stable isotope signatures of invasive house mice on islands – a global review
- 2020 | **Christopher Holliday**, **Michaela Plagwitz*†**: House mouse diet literature review
- 2020 | **Dana Romaniak*†**: Stable isotope signatures of invasive house mice on islands – a global review

2019 – 2020 | **Kaylee J. Rosenberger^{*†}**: Trophic position and dietary carbon sources of invasive mice
 2019 | **Sarah Naughton^{*}**: Responses of large-bodied arthropod orders to invasive house mice on Midway Atoll NWR
 2019 | **Erick Pacheco Grande^{*}**: Diversity of arthropod communities on Midway Atoll NWR
 2018 | **Kaylee J. Rosenberger^{*}**: Responses of orders hymenoptera and coleoptera to invasive mice house on Midway Atoll

UNDERGRADUATE LAB ASSISTANTS

MIDWAY ATOLL NWR PITFALL TRAP ARTHROPOD IDENTIFICATION, SORTING, AND COUNTING

2020 | Christopher Holliday, Michaela Plagwitz[†], Dana Romaniak[†], Kaylee J. Rosenberger[†]
 2019 | Kristin Chapman[†], Gian Feniza, Erick Pacheco Grande, Brittany Guzy[†], Megan Harris[†], Christopher Holliday, Austin Lahman, Sarah Naughton, Matthew Nordin, Juliana Peschke[†], Kaylee J. Rosenberger[†]
 2018 | Kaylee J. Rosenberger[†]

MIDWAY ATOLL NWR HOUSE MOUSE STABLE ISOTOPE ANALYSIS

2020 | Kaylee J. Rosenberger^{*†}
 2019 | Sarah Naughton, Kaylee J. Rosenberger^{*†}

EXPERIENCE

RESEARCH

2021 – present | **Ph.D. Candidate**

University of Tennessee: Knoxville, Tennessee

- Applying next-generation sequencing (NGS) and stable isotope analysis (SIA) in tandem to ascertain invasive house mouse (*Mus musculus*) diet on Midway Atoll National Wildlife Refuge (NWR) as part of pre-eradication research and planning.
- Collecting house mouse hair samples from island ecosystems on a global scale and using compound-specific isotope analysis (CSIA) to trace nutrient and energy flow within and among organisms and ecosystems in order to predict mouse impacts on island ecosystems and prioritize islands for house mouse eradication.
- Organizing and managing a global study with +40 collaborators on invasive house mice, with the goal to better understand this widespread rodent species, potential for rodenticide resistance, and maximize island ecosystem recovery projects.
- Tennessee Fellow for Graduate Excellence from 2021 to 2023.

2018 – 2021 | **NSF Graduate Fellow, M.Sc. Student**

Northern Illinois University: DeKalb, Illinois

- Conducted a baseline survey of Midway Atoll NWR's arthropod community structure and diversity, comparing islands with and without invasive house mice, to better understand Midway Atoll NWR's potential ecosystem response to mouse removal.
- Tested new methods to uncover invasive house mouse diet on Midway Atoll National Wildlife Refuge (NWR) through combined NGS and SIA Project.
- Developed protocols development for pre- and post-eradication monitoring including tracking arthropod community composition and abundance, emerald beetle (*Protaetia pryeri*) abundance and emergence trends, as well as Laysan duck (*Anas laysanensis*) arthropod consumption.
- Closely collaborated with U.S. Fish and Wildlife Service (USFWS) and Island Conservation to quantify and study the broader ecological impacts of mice on native and exotic flora and fauna on Midway Atoll NWR.

2016 – 2017 | **Invasive Plant Control Specialist**

Kupu/AmeriCorps Conservation Leadership Program: Midway Atoll National Wildlife Refuge

- Monitored, maintained, and analyzed invasive plant control efforts and phenological development for priority plant species.

- Developed Refuge Weed Risk Classification Tool to evaluate and rank invasive plant species and create specialized, targeted control plants.
- Collaborated with the USFWS, Kupu/AmeriCorps, and the USA National Phenology Network to analyze data and prepare reports on invasive plant control, restoration progress, and invasive plant phenology.
- Aided with mouse-albatross predation monitoring, mapping, and bait application.

2015 – 2016 | **Conservation Programs Fellow**

National Wildlife Refuge Association: Washington, D.C.

- Researched and produced informational materials and lobbying documents about Pacific Basin Marine National Monuments and National Wildlife Refuges for Washington audiences including Department of the Interior/USFWS leadership in Washington, Office of Management and Budget/White House, and Members of Congress.
- Completed an assessment on conservation goals and constituency building for Pacific Monuments and Refuges.
- Planned and convened workshops for USFWS, US Forest Service, state agency biologists and land managers, and private partners, to assess status of at-risk/petitioned species.

2015 | **Laysan Duck Research Intern**

USGS Pacific Island Ecosystems Research Center: Kilauea Field Station, Hawai'i Volcanoes National Park, Hawai'i

- Maintained all endangered Laysan duck (*Anas laysanensis*) population and rehabilitation data.
- Assembled Laysan duck identification, natural history, and Midway Atoll history reference materials and assisted with presentations about Laysan duck translocation and ecology for professional conferences and public audiences.
- Assisted with data collection efforts and programmatic support as published in Reynolds et al. 2017. *Wildfowl* 67:60–71

2014 – 2015 | **Wildlife Biology Program Volunteer and Laysan Duck Intern**

U.S. Fish and Wildlife Service: Midway Atoll National Wildlife Refuge

- Conducted demographic work on Laysan and black-footed albatross (*Phoebastria immutabilis* and *P. nigripes*) as well as endangered Laysan ducks.
- Monitored for botulism outbreaks among Laysan ducks and helped to rehabilitate sick ducks.
- Restored native and appropriate seabird habitat through native plant propagation and invasive plant removal.

2014 | **Avian Mist-Netter and Target-Netter**

Montana Cooperative Wildlife Research Unit: Mogollon Rim, Arizona

- Captured and banded various adult passerine species (ground nesters, shrub nesters, cavity nesters) during nestling and fledgling stages of offspring, obtained basic morphometric measures, and performed Doubly-Labelled Water technique on adult passerines.
- Conducted vegetation surveys (species ID, ground cover, canopy height, litter depth, stem/tree counts).

2013 | **Field Assistant / Avian Technician**

Cary Institute of Ecosystem Studies: Millbrook, New York

- Found and monitored veery (*Catharus fuscescens*) nests for study, and analyzed nest camera data for predation events and general nestling behavior and parental care.
- Set-up and executed recordings of the avian dusk chorus; analyzed acoustic data via sound analysis software (RavenPro 1.4) to determine trends among avian dusk chorus species in response to indirect predator alarm calls by satellite species.

2012 | Bird Research Intern

Missouri Ozark Forest Ecosystem Project (MOFEP): Ellington, Missouri

- Spot-mapped breeding, neotropical migrant passerines and conducted point counts; found and monitored focal species' nests.
- Mist-netted and banded passerines and obtained basic morphometric measurements.
- Completed research to determine relative abundance of hawk species among study sites in relation to different forest management techniques.

2008 | F.I.R.E. Up (Field Inquiry Research Experience) Researcher/Intern

Ada County School District: Meridian, Idaho

- Analyzed restoration efforts of a degraded stream bed in southern Idaho through cross sections, vegetation cover, and bank stability.
- Determined success rate of the replanting and reestablishing of bitterbrush (*Purshia tridentata*) in areas burned by the Homestead Fire.
- Collected data using Firemon Survey technology concerning vegetation coverage and species present in West Antelope, Owyhee Mountain Range.
- Prepared fire safety recommendations based on Redzone Survey data in Oasis and Tipanuk communities to assess the quality and defensible space of various homes and buildings.

PROFESSIONAL

2023 – present | Content Creator, Science

Khan Academy (remote)

- Developed rigorous, classroom activities for middle school biology and earth and space science courses; activities were framed using the GLEAM (grade-level, engaging, affirming, and meaningful) framework, focused on specific DCIs and SEPs.
- Revising Khan Academy's existing high school biology course (NGSS-aligned) and developing a new high school biology course for Texas (TEKS-aligned). Course development involved: creating and updating a detailed outline and timeline; auditing existing content and exploring associated data to identify content gaps and exercise improvements; writing and revising age-appropriate and standards-aligned articles; making and review understand and apply exercises; coding and producing complex graphs and graphics; uploading content and building courses using Khan Academy's in-house content management system.
- Created AI-supported teacher tools and student activities for biology and other STEM domains; developed and reviewed complex AI prompts.
- Taught and assisted colleagues about video content creation in an onsite-workshop; updating instructional documents and best practices on video content creation.
- Assisting with ongoing documentation of content creation protocols and best practices.

2021 – 2023 | Science Video Creator

Khan Academy (remote)

- Created high-quality instructional videos for middle and high school students on a variety of STEM subjects, aligned to NGSS and/or state-specific standards (such as TEKS) in a timely-manner.
- Developed and revised creative, engaging, and concise scripts to efficiently cover subject matter topics and meet education standards and objectives (NGSS).
- Used Adobe Creative Suite programs (Photoshop, Premiere Pro, Media Encoder) to record and edit professional-quality videos hosted on the Khan Academy website and associated YouTube channel. Examples include:
 - [Middle school biology – NGSS: Ecosystems and biodiversity](#)
 - [Ecosystem dynamics: Clarks' nutcrackers and the white bark pine](#)
 - [Biodiversity and ecosystem health: a Hawaiian Islands case study](#)
 - [Humans and ecosystems: how do vultures provide ecosystem services?](#)

- Middle school biology – NGSS: Evolution
 - Evolution
 - Common ancestry and evolutionary trees
- Middle school earth and space science – NGSS: Weather and climate
 - The water cycle
 - Global winds and currents
 - Earth’s freshwater resources
- Middle school earth and space science – NGSS: The geosphere
 - Weathering and erosion
- High school chemistry: Atoms, elements, and the periodic table
 - Protons, neutrons, and electrons in atoms
 - Elements and atomic number
 - Isotopes
 - Worked example: using the mass number equation
- AP®/College Environmental Science
 - Impacts of agricultural processes
 - Nuclear power generation
 - Reduction of air pollutants
 - Pollution and human health

2014 – present | **Freelance Graphic Designer**

- Creating hard-copy and electronic customized, unique, and audience-specific communications materials (written and graphic design) for local businesses and non-profit organizations.
- Freelance work also includes background research and/or analyses, including policy, historical, ecological, and data analyses depending on project needs.

2020 – 2021 | **Co-Founder**

The Aves Spice Company LLC: DeKalb, Illinois

- Fermented, processed, and bottled premium hot sauce in a commercial kitchen.
- Developed hot sauce recipes that incorporated local, seasonal ingredients; collaborated with local farmers and growers to support sustainable practices and livelihoods.
- Maintained clean kitchen and working space per Illinois Cottage Food Law and related regulations.
- Developed and maintained website for online sales; produced marketing materials for in-person sales as well as online (social media: Facebook, Instagram, Twitter).

2013 – 2014 | **Director**

University of Idaho Sustainability Center (UISC): Moscow, Idaho

- Developed a series of campus-wide sustainable food systems commitments that emphasize increasing purchases of locally- and regionally raised/grown food (especially from student organizations).
- Negotiated multi-million-dollar contract with Sodexo and for the University of Idaho Campus Dining to include sustainable targets, including 85% food procurement from local and regional sources, 90% waste reduction through composting, and zero-waste catering.

2011 – 2013 | **Projects Coordinator**

University of Idaho Sustainability Center (UISC): Moscow, Idaho

- Led and managed the UISC’s Student-led Grant Program, which included coordinating grant information seminars and grant writing workshops, evaluating grant applications, and advising/guiding grant recipients throughout their grant projects.

POPULAR SCIENCE WRITING

PROJECTS

Wing-It Blog, Organizer and Writer: <https://wing-it-blog.weebly.com/blog>

National Geographic Field Notes Expedition: <https://fieldnotes.nationalgeographic.org/expedition/midwaymice>

Gooney Gazette II, Editor (2015–2018): <https://friendsofmidway.org/get-involved/learn/gooney-gazette-ii-archive/>

Island Conservation Blog, Columnist: <https://www.islandconservation.org/author/wieteke-holthuijzen/>

FEATURED PIECES

2023

Holthuijzen, W. A. “Murderous mice attack and kill nesting albatrosses on Midway Atoll – scientists struggle to stop this gruesome new behavior.” *The Conversation*. <https://theconversation.com/murderous-mice-attack-and-kill-nesting-albatrosses-on-midway-atoll-scientists-struggle-to-stop-this-gruesome-new-behavior-220747>

2020

Holthuijzen, W. A., R. V. Taylor, and E. Posthumus. “Using phenology to guide invasive plant management.” *The Applied Ecologist*. <https://appliedecologistsblog.com/2020/05/15/using-phenology-to-guide-invasive-plant-management/>

2019

Holthuijzen, W. A. “Return of the albatross to Midway Atoll.” *Island Conservation*.

<https://www.islandconservation.org/return-albatross-midway-atoll/>

Holthuijzen, W. A. “Buds, bugs, birds: science of conservation.” *Island Conservation*.

<https://www.islandconservation.org/midway-buds-bugs-birds-science-conservation/>

Holthuijzen, W. A. “The science of conservation and the removal of invasive mice on Midway Atoll.” *Island*

Conservation. <https://www.islandconservation.org/science-conservation-removal-invasive-mice-on-midway/>

Holthuijzen, W. A. “Predatory mice threaten Midway’s wildlife.” *Island Conservation*.

<https://www.islandconservation.org/predatory-mice-threaten-midway-wildlife/>

Holthuijzen, W. A. “Restoration recipe for Midway Atoll.” *Island Conservation*.

<https://www.islandconservation.org/restoration-recipe-midway-atoll/>

Holthuijzen, W. A. “Keeping a pulse on Midway’s albatross population.” *Island Conservation*.

<https://www.islandconservation.org/keeping-pulse-midway-albatross-population/>

Holthuijzen, W. A. “Meet the mōli: Laysan albatross.” *Island Conservation*. <https://www.islandconservation.org/meet-moli-laysan-albatross/>

[moli-laysan-albatross/](https://www.islandconservation.org/meet-moli-laysan-albatross/)

Holthuijzen, W. A. “Coral reef biodiversity of Midway Atoll.” *Island Conservation*.

<https://www.islandconservation.org/midway-atoll-biodiversity-beyond-islands/>

Holthuijzen, W. A. “Midway’s native wildlife and the threat posed by invasive mice. *Island Conservation*.

<https://www.islandconservation.org/midway-native-wildlife-threat-posed-invasive-mice/>

Holthuijzen, W. A. “Exploring the history of Midway Atoll.” *Island Conservation*.

<https://www.islandconservation.org/exploring-history-midway-atoll/>

2018

Baker, E., and W. A. Holthuijzen. “Fighting at the frontline: volunteer recollections of seabird conservation and habitat restoration at Midway Atoll National Wildlife Refuge.” *Birding Magazine*, October 2018.

<https://www.aba.org/birding-online-october-2018/>

Anonymous. “How to ‘take care.’” *Field Secrets: A Field Guide to Living in the Field*.

<https://fieldsecrets.wordpress.com/2018/09/25/trigger-warning-how-to-take-care/>

2017

Holthuijzen, W. A. "Restoration in a novel environment." *Kupu Hawai'i Stories*.

<https://www.kupuhawaii.org/restoration-novel-environment/>

Holthuijzen, W. A. "Lessons learned in conservation on Midway Atoll NWR: and a *Hui Hou* to one of our *ohana*." *Kupu Hawai'i Stories*. <https://www.kupuhawaii.org/lessons-learned-conservation-midway-atoll-nwr-hui-hou-one-ohana/>

Holthuijzen, W. A. "The next wave... Pihemanu prepares to welcome the future." *Kupu Hawai'i Stories*.

<https://www.kupuhawaii.org/next-wave-pihemanu-prepares-welcome-future/>

Holthuijzen, W. A. "Turning over a new leaf: restoration of Midway Atoll." *Island Conservation*.

<https://www.islandconservation.org/restoration-midway-atoll/>

*Loebel-Fried, C. 2017. *A perfect day for an albatross*. Cornell Lab Publishing Group: Apex, South Carolina.

**Scientific contributor/consultant for book*

Alvarez, A. and W. A. Holthuijzen. 2017. "On a remote island, baby albatrosses suffer from a diet of plastic trash." *Oceana Magazine*. <https://oceana.org/blog/remote-island-baby-albatrosses-suffer-diet-plastic-trash>

2016

Holthuijzen, W. A. and W. Sentman. "Adopt an albatross – notes from the field." *Oceanic Society*.

<https://www.oceansociety.org/adopt/adopt-an-albatross>

Holthuijzen, W. A. "Mele kalikimaka a hau'oli – from Pihemanu!" *Kupu Hawai'i Stories*.

<https://www.kupuhawaii.org/mele-kalikimaka-a-hauoli-makahiki-hou-from-pihemanu/>

Holthuijzen, W. A. "E eomo mai: welcome to Kuaihelani, the backbone of the heavens." *Kupu Hawai'i Stories*.

<https://www.kupuhawaii.org/e-komo-mai-welcome-kuaihelani-backbone-heavens/>

EARLIER PUBLICATIONS

*Holthuijzen, W. A. "Lost and found in the sagebrush." *High Country News*, Oct. 15, 2012.

<https://www.hcn.org/issues/44.17/student-essay-lost-and-found-in-the-sagebrush>

**2012 High Country News Student Essay Runner-Up: 3rd place*

Holthuijzen, W. A. 2009. "Untitled." *She's Out There! The Next Generation of Presidential Candidates*. Sewell, A., H. L. Ogilvie, and R. A. Ripp. New York: Lifetime Media. (77-82). Print.

OUTREACH, ENGAGEMENT, AND PRESS

2023 | **Skype-a-Scientist**. Lincolnville Central School: Lincolnville, Maine.

2023 – 2024 | **Letters to a Pre-Scientist**. 6th grade science pen pal.

2023 | **Island Conservation**. "Sand Island study reveals invasive rodent diets and complexities of ecosystem conservation":

<https://www.islandconservation.org/invasive-rodent-diet/>

2023 | **Pest Control Technology**. "New study highlights invasive rodent attacks on Sand Island bird species":

<https://www.pctonline.com/news/new-study-highlights-invasive-rodent-attacks-on-sand-island-bird-species/>

2023 | **Skype-a-Scientist**. Asociación Escuelas Lincoln: Vicente López, Argentina.

2023 | **Agreement on the Conservation of Albatrosses and Petrels**. Photography of black-footed albatross used for World Albatross Day (June 19th, 2023) for the theme of "Plastic Pollution": <https://www.acap.aq/latest-news/4577-six-more-posters-released-today-in-support-of-this-year-s-world-albatross-day?fbclid=IwAR3UMYupy5TD8GFirK56vFmHaNeEr0EtVCni3psKFqExYk8xY4jleRKkCiw>

2022 – 2023 | **Letters to a Pre-Scientist**. 8th grade science pen pal.

2022 | **Khan Academy**. "Behind the making of Khan Academy's new science videos":

<https://blog.khanacademy.org/behind-making-khan-academy-science-videos/>

2022 | **Skype-a-Scientist**. La Cañada Unified School District, GATE (Gifted and Talented Program): La Cañada, California.

2022 | **Darwin Day Trivia Night**. Part of UTK Darwin Day 2022 festivities, organized by the graduate students in the

- Ecology and Evolutionary Biology (EEB) Program; developed trivia questions and hosted trivia night for the public to foster better understanding of and appreciation for evolutionary biology.
- 2022 | **Zoom-a-Zoologist.** Part of UTK Darwin Day 2022 festivities, organized by the graduate students in the EEB Program; one of three graduate student panelists featured in a Skype-a-Scientist event to connect with local high school students conducting their own research.
- 2021 – 2022 | **Letters to a Pre-Scientist.** 6th grade science pen pal. Flipgrid introduction about restoration ecology: <https://flipgrid.com/0b75c887>
- 2021 | **Skype-a-Scientist.** Lynbrook School District, UFSD Flight Program: Lynbrook, New York.
- 2021 | **Women Birders (Happy Hour).** Hosted by “Hannah and Erik Go Birding;” interview to discuss the roles of and challenges faced by women in the birding community: <https://www.gobirdingpodcast.com/women-birders-happy-hour>
- 2021 | **Skype-a-Scientist.** Oklahoma City University, TriBeta Biology Honor Society: Oklahoma City, Oklahoma.
- 2021 | **Skype-a-Scientist.** Tilton Elementary School, 5th grade: Rochelle, Illinois.
- 2021 | **Agreement on the Conservation of Albatrosses and Petrels.** Research on Midway Atoll NWR house mice and arthropod communities in relation to the pending mouse eradication: <https://www.acap.aq/latest-news/3994-delayed-by-covid-19-but-plans-to-eradicate-midway-atoll-s-house-mice-are-now-being-set-for-2022>
- 2021 | **Huskie Spotlight.** Featured on Northern Illinois University’s “NIU Today” and “Photo of the Day”: <https://www.instagram.com/p/CH9KkfqMjJU/>
- 2020 – 2021 | **Letters to a Pre-Scientist.** 8th grade science pen pal.
- 2020 | **Skype-a-Scientist.** Tilton Elementary School, 5th grade: Rochelle, Illinois.
- 2020 | **Skype-a-Scientist.** GEMS World Academy Chicago, 1st grade: Chicago, Illinois.
- 2020 | **The Niche—British Ecological Society.** Research selected by BES and featured in magazine. <https://www.britishecologicalsociety.org/membership-community/the-niche/>
- 2020 | **Ecology Lab (Virtual) Tour.** Northern Illinois University, Environmental Studies Department. Online: <https://www.niu.edu/clas/ese/academics/major.shtml>
- 2020 | **Skype-a-Scientist.** Live Q & A—Albatross-ities: Invasion and Recovery of Seabird Islands. Online: <https://www.youtube.com/c/SkypeAScientist/videos>
- 2020 | **Ecological Solutions and Evidence Editor’s Choice.** Research selected by ESE Editor and featured on journal blog. <https://appliedecologistsblog.com/2020/07/31/ese-editors-choice-0101/>
- 2020 | **Huskie Spotlight.** Interview by Northern Illinois University and featured on NIU’s homepage: <https://www.niu.edu/spotlight/student/holthuijzen.shtml>
- 2020 | **STEM at the DeKalb Library.** Invited interview by DeKalb Public Library and featured on website to encourage STEAM-related books for young readers: <https://dkplstem.wordpress.com/2020/06/24/steam-interview-with-wieteke-holthuijzen/>
- 2020 | **“SHE” Session** (afterschool science for girls). Hoover-Wood Elementary School, 3rd–5th grades: Batavia, Illinois.
- 2020 | **Agreement on the Conservation of Albatrosses and Petrels.** Advocacy in support of World Albatross Day: <https://www.acap.aq/en/latest-news/3521-the-friends-of-midway-atoll-national-wildlife-refuge-gives-its-views-on-world-albatross-day-2020>
- 2020 | **Agreement on the Conservation of Albatrosses and Petrels.** Short interview and featured wildlife photographer: <https://www.acap.aq/en/latest-news/3493-three-photographers-donate-use-of-their-albatross-images-to-support-acap-and-world-albatross-day>
- 2019 – 2020 | **Letters to a Pre-Scientist.** 6th grade science pen pal.
- 2019 | **Skype-a-Scientist.** Mariner High School, 9th–10th grades: Everett, Washington.
- 2019 | **Skype-a-Scientist.** Mariner High School, 9th–12th grades: Everett, Washington.
- 2019 | **Skype-a-Scientist.** Drake Middle School, 6th grade: Auburn, Alabama.
- 2019 | **The Mike Nowak Show.** Invited radio interview: <https://mikenowak.net/this-weeks-show/albatross-mouse/>
- 2019 | **Skype-a-Scientist.** Visitation School, 11th–12th grades: Mendota Heights, Minnesota.
- 2019 | **NIU Newsroom.** Invited interview by Northern Illinois University and featured on NIU’s homepage: <https://newsroom.niu.edu/2019/10/07/all-in-for-albatross/>

- 2019 | **Skype-a-Scientist**. Niobrara Public School, 5th grade: Niobrara, Nebraska. Created curriculum/lesson plan for students about stable isotope analysis and ecology.
- 2019 | **Skype-a-Scientist**. Unionville-Sebewaing Middle School, 6th-8th grades: Sebewaing, Michigan.
- 2018 – 2019 | **Letters to a Pre-Scientist**. 4th grade pen pal. Featured in LPS' "Picture a Scientist" campaign to raise awareness about diversity among scientists (<https://www.prescientist.org/photogrid/photogrid-wieteke-holthuijzen/>)
- 2018 | **Skype-a-Scientist**. W. J. Cooper Elementary School, 4th grade: Loganville, Georgia.
- 2018 | **Explain Yourself**. Invited interview with Sheryl Hosler—creator and host of "The Roving Naturalist"—for her series "Explain Yourself": https://www.youtube.com/watch?v=wuMOs1n_Z50&feature=youtu.be

PUBLIC PRESENTATIONS

- 2023 | Taylor, R. V., and **W. A. Holthuijzen**. "Using phenology data to improve control of invasive plant species: A case study on Midway Atoll NWR." Implementing a Successful Citizen Science Effort (virtual presentation through National Conservation Training Center). Guest Presenter.
- 2022 | Taylor, R. V., and **W. A. Holthuijzen**. "Using phenology data to improve control of invasive plant species: A case study on Midway Atoll NWR." Citizen Science Class (virtual presentation through National Conservation Training Center). Guest Presenter.
- 2021 | **Holthuijzen, W. A.** "Nature: life, balance, discovery." #STEAMComeTrue (virtual presentation). Guest Scientist.
- 2020 | **Holthuijzen, W. A.** "I study mouse poop and hair: AKA understanding the impacts of invasive mice on islands." Skype-a-Scientist's "No Time Like the Presentation" (virtual conference). Guest Presenter.
- 2018 | **Holthuijzen, W. A.**, and C. N. Wails. "A plastic ocean" (documentary screening). Guest Panelists. Green Lens Film Series, Egyptian Theatre, DeKalb, Illinois.
- 2018 – 2019 | **Holthuijzen, W. A.**, and C. Loebel-Fried. "A perfect day for an albatross: experiences on Midway Atoll." Guest speaker/reader. Ada Communities Libraries, Boise, ID, and DeKalb Public Library, DeKalb, Illinois.
- 2015 | Reynolds, M. H., K. N. Courtot, and **W. A. Holthuijzen**. "Reintroduction of island ducks *Anas laysanensis*." Friends of Hakalau Forest National Wildlife Refuge Public-Science Sponsored Presentation, Mokupāpapa Discovery Center, Hilo, Hawai'i.
- 2010 | **Holthuijzen, W. A.** "Idaho Power students for energy efficiency." Presenter and project lead. Meridian School Board, Meridian, Idaho.
- 2010 | **Holthuijzen, W. A.** "Untitled." Public testimony. Idaho Legislature: Idaho State House Energy, Environment and Technology Committee, Boise, Idaho.
- 2010 | **Holthuijzen, W. A.** "Untitled." Public testimony. Idaho Legislature: Idaho State Senate State Affairs Committee, Boise, Idaho.
- 2009 | **Holthuijzen, W. A.** "Reflections on the ten-year time capsule opening for Drug Free Idaho, Inc." Drug Free Idaho, Inc. Starfish Ball, Boise, Idaho.
- 2010 | **Holthuijzen, W. A.** "2007 Idaho Energy Plan." Public testimony with Idaho Energy Collaborative. Idaho Legislature, Boise, Idaho.
- 2009 | **Holthuijzen, W. A.** "She's out there! The next generation of presidential candidates." Featured essayist and book signing. A Novel Adventure Bookstore, Boise, Idaho.

PROFESSIONAL SERVICE

JOURNALS AND ORGANIZATIONS

- 2020 – present | Pacific Seabird Group: Communications Committee (Co-Coordinator)
- 2017 – present | *Wilson Journal of Ornithology* (French Translator)
- 2018 – present | Peer review referee: *Austral Ecology*, *Bioacoustics*, *Biological Invasions*, *Conservation Biology*, *Environmental Conservation*, *Environmental Evidence* (BMC Supplements), *Integrative Zoology*, *Journal of Ornithology*, *Perspectives in Ecology and Conservation*, *PeerJ*, *Wilson Journal of*

	<i>Ornithology</i>
2020 – 2023	Pacific Seabird Group: Equity, Inclusion, and Diversity (EID) Committee (Member), Corresponding Members Subcommittee (Member)
2021 – 2022	Global Links for Islands and Marine Restoration – Working Group (Member)
2019 – 2021	<i>World Seabird Union</i> (Website Content Editor)

SERVICE

2024 – present | **Board Member**

Society of Island Biogeography (SIB)

Increase research and communication exchange among researchers, work with board members to organize our international meeting, grow global representation in membership, and cultivate collaborative relationships among established and early career scientists as well as graduate students.

2021 – present | **Graduate Researchers in Ecology, Behavior, and Evolution (GREBE)**

University of Tennessee – Knoxville (UTK)

Volunteer with GREBE in community outreach and engagement activities including UTK Ecology & Evolutionary Biology Graduate Recruitment Weekend (Lightning Talks, Grad Life Panel) and Darwin Day (Evolution Trivia Night, Zoom-a-Zoologist).

2021 – present | **Ecology & Evolutionary Biology (EEB) Mentoring Committee**

University of Tennessee – Knoxville (UTK)

Connect and engage with UTK EEB undergraduate students to provide guidance and advice regarding graduate school, job openings, professional development, and undergraduate research opportunities.

2020 – present | **Communications Committee Co-Coordinator (Website Coordinator); Corresponding Members Committee Co-Coordinator (2020–2023); Equity, Diversity, and Inclusion Committee Member (2020–2023)**

Pacific Seabird Group (PSG)

Increase the diversity, equity, and inclusion of seabird researchers in PSG membership by identifying and inviting seabird researchers with little to no institutional support throughout the Pacific region for sponsored memberships. Provide networking and collaboration opportunities for sponsored members as well as research grant and Annual Meeting access and support. Maintain PSG website with up-to-date information and help to coordinate communications regarding seabird conservation academic positions, jobs, and volunteer opportunities, as well as information about the Annual Meeting (reaching hundreds of members). Founded and developed the PSG Helping Elevate Long-term Participation in Science (HELPS) Program, which provides 3-year memberships to students and early-career scientists from under-represented minorities as well as mentorship, networking, and access to research grants, travel grants, and free or reduced registration costs to the PSG Annual Meeting.

2017 – present | **French Translator**

Wilson Journal of Ornithology

Translate abstracts of avian ecology and avian biology peer-reviewed articles to standard, professional French.

2015 – 2023 | **Board Director**

Friends of Midway Atoll National Wildlife Refuge (FOMA)

Coordinated efforts with Refuge staff to preserve, protect, and restore biological diversity and historical resources of Midway Atoll NWR. Created engaging and informative media for education, outreach, and lobbying purposes; led webinars and other public presentations to share information about the Midway Atoll NWR and ongoing ecological restoration and historical preservation efforts; engaged with K-12 students via Skype-a-Scientist to share footage of Midway Atoll NWR and show the important roles of ecologists and biologists on the world's largest albatross colony; maintained a database of >2,000 donors and subscribers, organized and tracked memberships and donations, and

coordinated communications with donors and subscribers.

2022 – 2023 | Ecology & Evolutionary Biology (EEB) Seminar Committee, Graduate Representative

University of Tennessee – Knoxville (UTK)

Helped to organize the weekly EEB seminar series focused on advanced topics in ecology, behavior, and evolutionary biology; shared reminders and meeting information with EEB students, faculty, and staff; improved intra- and interdepartmental participation and engagement.

2021 – 2022 | Working Group Member

Global Links for Islands and Marine Restoration (GLIMR), Island Conservation

Contributed to global database quantifying and measuring links between seabird-derived nutrients to terrestrial island systems and nutrient cycling/nutrient flows to surrounding marine environments; quantified and analyzed data for targeted white paper publications.

2021 – 2022 | Ecology & Evolutionary Biology (EEB) Field Station Committee

University of Tennessee – Knoxville (UTK)

Discussed and planned the future of the EEB Field Station in Pittman Center and how to maximize its use and minimize the costs to EEB; in particular, explored the options of EEB's continued oversight and ownership of the field station.

2019 – 2021 | Website Content Editor

World Seabird Union

Regularly reviewed and updated information on website to share news and updates about seabird conservation and research-related conferences, events, and meetings; maintained a global database of seabird research conferences; posted news items for seabird researchers about academic positions, jobs, volunteer opportunities for seabird conservation and research.

2021 | Conference on Undergraduate Research & Engagement Judge

Northern Illinois University

Assisted in evaluating undergraduate research exhibits and professional presentations; scored presentations based on poster appearance, overall presentation, significance of research topic, methods used, and depth of analysis.

2019 – 2020 | Graduate Student Representative

*Graduate Council: Graduate Council Curriculum Committee, Campus Security and Environmental Quality Committee
Northern Illinois University: DeKalb, Illinois*

Received requests, through college curriculum committees, for changes in graduate-level course work and curricula. Advised NIU President on security of the university community and campus environment.

2020 | Undergraduate Research and Artistry Day Judge

Northern Illinois University

Assisted in evaluating undergraduate research exhibits and professional presentations; scored presentations based on poster appearance, overall presentation, significance of research topic, methods used, and depth of analysis.

2007 – 2018 | Idaho National History Day Judge

Regional and State Competitions: Boise and Caldwell, Idaho

Assessed historical analysis of exhibits and documentaries from youth and junior age groups.

2010 – 2014 | Volunteer

Palouse Clearwater Environmental Institute: Moscow, Idaho

Built and maintained hiking trails; prepared and constructed benches and other structures for children education area.

2010 – 2014 | Group Member and Volunteer

University of Idaho French Conversation Group: Moscow, Idaho

Discussed various topics with university students, faculty, and staff in conversational French.

2010 – 2011 | Sustainability Volunteer

University of Idaho Sustainability Center: Moscow, Idaho

Taught and assisted university students, staff, and faculty as well as community members with proper recycling and composting practices on campus. Helped increase campus biodiversity and soil stabilization by planting over 100 different native species among various restoration sites.

2007 – 2010 | Interpretive Center Volunteer

The Peregrine Fund World Center for Birds of Prey: Boise, Idaho

Aided with events, tours, and educational activities in the interpretive center and gift shop.

2007 – 2009 | French Tutor

Mountain View High School: Meridian, Idaho

Tutored students struggling with French and created French study guides and worksheets.

2007 – 2009 | School Project Champion

Solar 4R Schools, Mountain View High School (MVHS): Meridian, Idaho

Wrote proposal, organized teacher meetings, gave presentations, and submitted application to the Bonneville Environmental Foundation (BEF) to obtain photovoltaics system at MVHS.

PROFESSIONAL SKILLS

CERTIFICATIONS AND TRAINING

2022 – 2025 | Office of Laboratory Animal Care (OLAC) Animal User Training, University of Tennessee – Knoxville

2022 – 2025 | Comprehensive IACUC Training, University of Tennessee – Knoxville

2020 | Illinois Food Manager Certification (ANSI-accredited)

2019 | American Red Cross Wilderness Training

2019 | American Red Cross First AED/CPR/AED Certification

2019 | National Wildfire Coordinating Group: Firefighter Type 2 Certification: S-110, S-190, S-130

2019 | Collaborative Institutional Training Initiative Program: Physical Science Responsible Conduct of Research (RCR)

2018 | Sue Latta, The Sculpture Studio: Introduction to Welding (Boise Creative Center: Boise, Idaho)

PROFESSIONAL SOCIETY MEMBERSHIPS

2023 – present | Society of Island Biology

2019 – present | Pacific Seabird Group

2015 – present | World Seabird Union

2020 – 2021 | American Society of Mammalogists

2019 – 2021 | Golden Key International Honour Society, Northern Illinois University Chapter

2018 – 2021 | Ecological Society of America

2018 – 2021 | Natural Areas Association

2018 – 2020 | The Wildlife Society

2018 – 2020 | Sigma Xi, The Scientific Research Honor Society, Associate Member

2014 – 2015 | Phi Sigma (Beta Eta Chapter) Member

2013 – 2014 | Phi Beta Kappa Member

2011 – 2014 | Phi Kappa Phi Member

2011 – 2014 | National Society of Collegiate Scholars (NSCS) Member

ADDITIONAL COURSEWORK

- **Learn Prompting:** Generative AI and Prompt Engineering
- **DeepLearning.AI:** ChatGPT Prompt Engineering for Developers
- **DataCamp:** Introduction to Data, Introduction to R, Statistics with R, Foundations of Probability in R, Into to Statistics with R: Correlation and Linear Regression, Exploratory Data Analysis, Correlation and Regression
- **Coursera:** Basic Statistics, The Data Scientist's Toolbox, Inferential Statistics
- **The Great Courses:** Introduction to Statistics in R
- **STEDI:** SubSkills Training Course
- **ESRI:** Cartography, Do-It-Yourself Geo Apps, Earth Imagery at Work

FIELD AND ORGANISMAL

Remote field experience, including backcountry camping and field camps without electricity, running water, and access to phone reception/internet for months at a time. Off-road hiking and backpacking; navigation using GPS, compass, and maps; safe and responsible driving with four-wheel drive vehicles, UTVs/ATVs, and golf carts; training in handling small watercraft; strong swimmer and basic boat handling skills. Field experience with bird identification, nest identification, visual encounter surveys, remote-sensing (trail cameras, point counts); terrestrial trapping (pitfall traps, mist nets); museum specimen preservation/preparation; safe handling of wildlife and rehabilitation (bird handling, capture, and banding, basic avian medical care); tissue collection (feathers, hair, tissue extraction); plant identification/vegetation surveys; taxidermy. Experience with domestic import/export permits and report writing for federal agencies and non-profit organizations. Languages: English (native), Dutch (native), French (proficient speech and writing).

LABORATORY

Experience with specimen cleaning/preparation, dissections, sample preparation and analysis, including stable isotope prep work and analysis, plus DNA extraction, PCRs, AMPure XP bead clean-up and size selection, and gel electrophoresis.

SOFTWARE AND COMPUTING

Intermediate to advanced statistical analysis and graphics in R; frequentist statistics, generalized linear models, generalized linear mixed models, multivariate analysis, stable isotope mixing models. Advanced knowledge of multivariate statistics and graphics in PRIMER-e. Basic background in Unix/Linux systems and bioinformatics pipelines. Advanced application of Microsoft Office (Excel, PowerPoint, Access, Word) and Adobe Creative Suite (Photoshop, Premiere Pro, After Effects, Media Encoder), along with video recording, editing, and production. Proficient with ArcGIS/ArcMAP, PlotDigitizer, HOBOWare, GPower, and RavenPro. Advanced graphic design with Gimp and proficient with Inkscape.

ACTIVITIES

2021 | Rower, TriStar Rowing

Mixed quad rowing team: Knoxville, Tennessee

2019 – 2021 | Blocker, Barbed Wire Betties

Women's flat-track roller derby ("Slamsterdam" #208): DeKalb, Illinois

2012 – 2020 | Pilates Teacher

University of Idaho (Moscow, Idaho) and Fit for Adventure (Boise, Idaho)

2013 – 2014 | Team Member, University of Idaho Logger Sports

University of Idaho: Moscow, Idaho

2006 – present | Musician

"Cinderella" musical pit orchestra member; cellist in "The Thalweg" (local Moscow, Idaho folk music/Americana band); ukulele and electric bass player in "Sunny Side Up" (Midway Atoll NWR band). Instruments played: cello (advanced), ukulele

(beginner), electric bass (beginner), banjo (beginner), and mandolin (beginner).

REFERENCES

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