

# JORDAN HERMAN PH.D.

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## EDUCATION

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### Ph.D. Biology

University of Utah  
Advisor: Dale H. Clayton

May 2020  
Salt Lake City, UT

### B.S. Ecology, Evolution and Behavior

Minor in Spanish Studies  
University of Minnesota – Twin Cities

2011  
Minneapolis, MN

Minnesota Studies in International Development  
*La Fundación Cimas del Ecuador*

2009  
Tena, Quito, Ecuador

National Student Exchange  
University of Hawaii at Hilo

2008  
Hilo, HI

## PUBLICATIONS

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**Herman, J. M.**, V. D. Fiorini, I. Crudele, J. C. Rebores, S. A. Pladas, A. P. Watson, C. M. Dixon, S. E. Bush, and D. H. Clayton. Co-parasitism in the face of predation: Effects of shared enemies on a neotropical mockingbird. *In prep.*

**Herman, J. M.**, A. W. Bartlow, and J. M. Fair. A long-term study of the effects of blowflies on the growth and condition of songbird nestlings. *In prep.*

Knutie, S. A., **J. M. Herman**, J. P. Owen, and D. H. Clayton. 2017. Tri-trophic ecology of native parasitic nest flies of birds in Tobago. *Ecosphere* 8:e01670.

Vázquez-Miranda, H., J. A. Griffin, J. M. Sheppard, **J. M. Herman**, O. Rojas-Soto, and R. M. Zink. 2017. Morphological and molecular evolution and their consequences for conservation and taxonomy in the Le Conte's Thrasher (*Toxostoma lecontei*). *Journal of Avian Biology* 48:1–14.

Knutie, S. A., J. P. Owen, S. M. McNew, A. W. Bartlow, E. Arriero, **J. M. Herman**, E. DiBlasi, M. Thompson, J. A. H. Koop, and D. H. Clayton. 2016. Galapagos mockingbirds tolerate introduced parasites that affect Darwin's finches. *Ecology* 97:940–950.

Horns, J. J., E. Buechley, M. Chynoweth, L. Aktay, E. Çoban, M. A. Kırpık, **J. M. Herman**, Y. Şaşmaz, and Ç. H. Şekercioğlu. 2016. Geolocator tracking of Great Reed-Warblers (*Acrocephalus arundinaceus*) identifies key regions for migratory wetland specialists in the Middle East and sub-Saharan East Africa. *The Condor* 118:835–849.

## RESEARCH

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### University of Utah

Post-doctoral fellow; Supervisor: Sarah E. Bush (*see References*)

2020 – Present  
Salt Lake City, UT

- Currently studying the anti-parasite behavior of American kestrels in relation to parasite load, demography, and the environment.

Graduate Researcher; Advisor: Dale H. Clayton (*see References*)

2014 – 2020

- Investigated the combined effects of avian brood parasites and parasitic nest flies on the reproductive success of chalk-browed mockingbirds in Argentina.
- Studied the impact of blowfly parasitism on the growth and survival of western bluebirds and ash-throated flycatchers in Los Alamos, NM.

Graduate Researcher; Advisor: Çağan H. Şekercioğlu

2014 – 2016

- Studied the effects of climate change on the demography and altitudinal ranges of understory passerine communities in Ethiopia.
- Conducted population monitoring of migratory birds at two bird banding stations in Utah.

Research Assistant; Principal investigator: Sarah Knutie 2012  
– Conducted field research in the Galápagos Islands to assess the effects of an invasive, parasitic nest fly on the reproductive success of Darwin’s finches and Galápagos mockingbirds.  
– Performed a comparative study in Tobago, West Indies to investigate the effects of a native fly on the reproductive success of tropical mockingbird and black-faced grassquits.

**University of Minnesota – Twin Cities** 2013  
Researcher; Principal investigator: George Heimpel Minneapolis, MN  
– Investigated the use of a parasitoid wasp as a classical biological control method of an invasive parasitic fly (*Philornis downsi*) of breeding birds in the Galápagos Islands.

Research Assistant; Principal investigator: Hernán Vázquez Miranda 2012  
– Developed and tested molecular markers; performed DNA extraction, PCR, and DNA sequencing for over 20 loci to propose a new species of wren in Baja California in need of conservation efforts.

Research Assistant; Principal investigator: Michael Wells 2011  
– Used mist-netting to capture target band-backed wrens, and then performed daily focal follows and scan samples to study the interactions between mating and social systems of cooperatively breeding birds in Costa Rica.

Research Assistant; Principal investigator: Dave Stephens 2010  
– Ran programs for operant conditioning chambers and recorded behavioral data on blue jays.

Undergraduate Research Project; Principal investigator: Sarah Knutie 2010  
– Tracked male purple finches using ATS radio-transmitters and receivers.  
– Estimated home range size using minimum-convex polygon (MCP) analysis in ArcGIS.

**The University of Tulsa** 2010 – 2011  
Research Assistant; Principal investigator: Charles Brown Tulsa, OK  
– Mist-netted and banded over 20,000 cliff swallows as part of a thirty-year study of the costs and benefits of coloniality in cliff swallows.

## TEACHING EXPERIENCE

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**University of Utah**  
Teaching Assistant, Principles of Biology Summer 2018  
Teaching Assistant, Ecology & Evolution Spring 2018, Spring 2019  
Teaching Assistant, Evolution and Diversity of Life Fall 2017  
Teaching Assistant, Biology, Society and Public Engagement Spring 2015, Spring 2016  
Teaching Assistant, Principals of Wildlife Ecology Spring 2014

**University of Minnesota – Twin Cities**  
Undergraduate Teaching Assistant, Zoology Lab Spring 2011

## SERVICE

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**University of Utah**  
Organizer of Wilderness First Aid course, School of Biological Sciences 2017, 2020  
Member of the School of Biological Sciences Social Event Committee 2016 – 2017  
Coordinator of “Scientifically Speaking,” a weekly seminar series 2014 – 2015

**Tracy Aviary** 2017, 2019  
Technical Advisor to the Conservation Committee  
– Provide detailed scientific evaluations of conservation research grant proposals and reports produced by the Tracy Aviary. Make funding recommendations for a 50K grant budget.

**Great Salt Lake Audubon (GSLA) Society**

2014 – 2017

Conservation Committee Member

- Attend meetings with local partners on behalf of the GSLA.
- Research content, draft and review GSLA comments on conservation issues that impact birds, wildlife and habitat in Utah.

**PROFESSIONAL TRAINING**

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Federal Bird Banding and Marking Permit, U.S. Geological Survey	2017
Wilderness First Responder Certification	2015
Program MARK short course; Utah State University	2014
Songbird Banding Workshop, Boise State University	2014

**PUBLIC ENGAGEMENT AND CITIZEN SCIENCE**

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**Avian Nest Box Network** 2016 – Present  
Project founder Alta, UT

- Envisioned and launched a citizen science project designed to collect data on Utah's montane breeding birds.
- Collaborated with local stakeholders to institute and advance the project, including the Alta Ski Resort and local non-profit organizations: The Tracy Aviary, Alta Environmental Center and Friends of Alta.

**National Science Foundation STEM Ambassador Program** 2017  
Graduate Student STEM Ambassador Salt Lake City, UT

- Formally trained in science communication concepts and techniques.
- Designed a public engagement project with a locally-owned female led business, "Argentina's Best Empanadas" in Salt Lake City, to generate patronage of the business and inform customers on current issues regarding Argentina's birds.
- Designed a public engagement event for indigenous youth at the Urban Indian Center emphasizing their capabilities as citizen scientists through collecting data on bird ecology.

**National Public Radio's Friends of Joe's Big Idea** 2017  
Graduate student member Salt Lake City, UT

- Participant in a network of scientists to share local science communication and engagement opportunities, propose creative ideas for new events, provide peer feedback to others, and improve science writing skills with NPR's "office hours."

**Red Butte Canyon Bird Banding outreach program** 2014 – 2016  
Lead Bander Salt Lake City, UT

- Promoted public interest and engagement in conservation research through involving community members in hands-on bird banding techniques in Red Butte Canyon.

**GRANTS AND HONORS**

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Graduate Research Fellowship, Univ. of Utah (\$18,700)	2019
Travel Grant, Global Change and Sustainability Center, University of Utah (\$500)	2019
Travel Grant, School of Biological Sciences, University of Utah (\$400)	2019
Graduate Student Travel Assistance Award, University of Utah (\$400)	2019
Lewis & Clark Fund for Exploration and Field Research (\$3,100)	2018
American Ornithological Society Wetmore Award (\$2,500)	2018
Coley-Kursar Graduate Field Research Award (\$2,000)	2018
George R. Riser Research Fellowship (\$11,500)	2018
British Ornithologists' Union Small Research Grant (\$2,000)	2018
Travel Grant, School of Biological Sciences, University of Utah (\$400)	2018
George R. Riser Travel Award, University of Utah (\$800)	2017
Travel Grant, Global Change and Sustainability Center, University of Utah (\$500)	2016
Travel Grant, School of Biological Sciences, University of Utah (\$400)	2016
Global Change and Sustainability Center Research Award, University of Utah (\$3,000)	2016

George R. Riser Travel Award, University of Utah (\$800)	2015
Janet S. Boe Memorial Scholarship, University of Minnesota – Twin Cities (\$2,000)	2010
William H. Marshall Field Biology Award, University of Minnesota – Twin Cities (\$500)	2010

## PRESENTATIONS

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- Herman, J.M.** Do blowflies suck? A long-term study of the effects of ectoparasites on songbird nestlings. 2019. School of Biological Sciences, University of Utah, Salt Lake City, UT. Oral presentation.
- Herman, J.M.** Birds at war: cheating, deception and mafia tactics. 2019. Initiative to bring Science Programs to the Incarcerated in Utah (INSPIRE), Utah State Prison. Oral presentation.
- \*Herman, J.M.** V.D. Fiorini, I. Crudele, J.C. Rebores, S.A. Pladas, S.E. Bush and D.H. Clayton  
To kill a mockingbird: the combined effects of two radically different parasites. 2019. American Ornithological Society Conference, Anchorage, AK. Oral presentation.  
\* *Received the AOS Council Award for best student oral presentation.*
- Herman, J.M.** To kill a mockingbird: the combined effects of two radically different parasites. 2018. School of Biological Sciences, University of Utah, Salt Lake City, UT. Oral presentation.
- Herman, J.M.**, Pladas S.A., Bush S.E. and Dale H. Clayton. Do radically different parasites have interacting effects on host fitness? 2018. International Ornithological Congress, Vancouver, B.C., Canada. Traditional poster.
- Herman, J.M.** La relación hospedador-parásito entre la calandria y *Philornis spp.* 2017. University of Buenos Aires. Autonomous City of Buenos Aires, Argentina. Oral presentation.
- Herman, J.M.** Home invaders: effects of botfly parasitism on nestling growth and mortality of western bluebirds. 2017. Global Change and Sustainability Center Research Symposium, University of Utah. Salt Lake City, UT. Poster presentation.
- Herman, J.M.**, S.A. Knutie, J.P. Owen, and D.H. Clayton. 2016. Tri-trophic ecology of native nest flies (*Philornis trinitensis*) in grassquits and mockingbirds of Tobago. North American Ornithological Conference, Washington D.C. Oral presentation.
- Herman, J.M.** Ecological importance of birds around the world. 2016. Utah County Birders. Brigham Young University, Provo, UT. Oral presentation.
- Herman, J.M.** Population monitoring of migratory passerines in southwestern Utah. 2015. Rio Mesa Teacher Weekend. Moab, UT. Oral presentation.

## MENTORSHIP

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2019 – 2020	André Watson. Undergraduate student, University of Utah.
2019	Britney Shunn. Undergraduate student in the ACCESS Program for Women in Science and Mathematics, University of Utah.
2018	Cameron Dixon. Graduate student in the Masters of Science for Secondary School Teachers (MSSST) program
2018	Gonzalo Udry. Undergraduate student, University of Buenos Aires, Argentina
2018	Maria de las Nieves. Undergraduate student, University of Buenos Aires, Argentina.
2017	Shawn Pladas. Undergraduate student, University of Utah.
2015	Kylynn Parker. Undergraduate student conducting an independent study project at the University of Utah.
2014 – 2015	Mercede Shaw. Undergraduate student, University of Utah.
2014 – 2015	Hannah Hanson. Undergraduate student, University of Utah.

## ADDITIONAL EXPERIENCE

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<b>University of Minnesota – Twin Cities</b>	2012 – 2014
Freshman Admissions Counselor	
<ul style="list-style-type: none"> <li>– Advised prospective high school students on the college admissions process, and informed them of academic and practical opportunities for students in the biological sciences.</li> <li>– Presented weekly informative sessions to groups of 60 or more visitors, and headed the organization and execution of bi-annual events for approximately 600 campus guests.</li> </ul>	

## **PROFESSIONAL MEMBERSHIPS**

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British Ornithologists' Union (2018), Society for the Study of Evolution (2018), Wilson Ornithological Society (2018), American Ornithological Society (2018, 2019), British Ecological Society (2018), International Ornithologists' Union (2018)

## **REFERENCES**

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Dale H. Clayton, Ph.D.  
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257 South 1400 East  
University of Utah  
Salt Lake City, Utah 84112-0840  
Email: clayton@biology.utah.edu

Sarah E. Bush  
Assistant Professor, School of Biological Sciences  
257 South 1400 East  
University of Utah  
Salt Lake City, Utah 84112-0840  
Email: bush@biology.utah.edu