

CURRICULUM VITAE

Hannah L. Owens

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APPOINTMENTS

2023 – Pres Assistant Professor, Section for Biodiversity, Globe Institute, University of Copenhagen

2022 – 2023 Postdoctoral Research Associate, University of Copenhagen; Mentor: Carsten Rahbek.

2020 – 2022 Marie Skłodowska-Curie Postdoctoral Fellow, University of Copenhagen; Mentors: Carsten Rahbek and Katherine Richardson.

2019 – 2020 Postdoctoral Research Associate, University of Copenhagen; Mentor: Carsten Rahbek.

2019 – Pres Courtesy Faculty, Department of Natural History, Florida Museum of Natural History, University of Florida.

2017 – 2019 Postdoctoral Research Associate, University of Florida; Mentors: Robert Guralnick and Akito Kawahara.

2015 – 2017 NSF Postdoctoral Fellow, University of Florida; Mentors: Robert Guralnick and Akito Kawahara.

EDUCATION

2015 Ph.D. with Honors – Ecology and Evolutionary Biology; Advisors: Edward O. Wiley and A. Townsend Peterson, Department of Ecology and Evolutionary Biology, University of Kansas; Lawrence, KS.

2012 Graduate Certificate – Environmental Studies; Advisor: Joane Nagel, Department of Sociology, University of Kansas; Lawrence, KS.

2008 M.A. – Ecology and Evolutionary Biology; Advisor: Kirsten Jensen, Department of Ecology and Evolutionary Biology, University of Kansas; Lawrence, KS.

2006 B.S. with University Honors – Biodiversity, Ecology, and Evolutionary Biology, University of Kansas; Lawrence, KS.

PUBLICATIONS

Merow, C, B Boyle, BJ Enquist, X Feng, JM Kass, BS Maitner, B McGill, **HL Owens**, DS Park, A Paz, GE Pinilla-Buitrago, MC Urban, S Varela, AM Wilson. 2023. Better incentives are needed to reward academic software development. *Nature Ecology & Evolution* doi: 10.1038/s41559-023-02008-w.

Owens, HL, C Rahbek. 2023. voluModel: Modelling species distributions in three-dimensional space. *Methods in Ecology and Evolution* 14: 841-847. doi: 10.1111/2041-210X.14064

Kass JM, GE Pinilla-Buitrago, A Paz, BA Johnson, V Grisales-Betancur, SI Meenan, D Attali, O Broennimann, PJ Galante PJ, BS Maitner, **HL Owens**, S Varela, ME Aiello-Lammens, C Merow, ME Blair, RP Anderson. 2023. *wallace 2*: a shiny app for modeling species niches and distributions redesigned to facilitate expansion via module contributions. *Ecography* 2023: e06547. doi: 10.1111/ecog.06547.

Wang Y, A Prohaska, H Dong, A Alberti, IG Alsos, DW Beilman, AA Bjørk, J Cao, AA Cherezova, E Coissac, B De Sanctis, F Denoeud, C Dockter, R Durbin, ME Edwards, NR Edwards, J Esdale, GB

- Fedorov, A Fernandez-Guerra, DG Froese, G Gusarova, J Haile, PB Holden, KK Kjeldsen, KH Kjær, TS Korneliussen, Y Lammers, NK Larsen, R Macleod, J Mangerud, H McColl, MKF Merkel, D Money, P Möller, D Nogués-Bravo, L Orlando, **HL Owens**, MW Pedersen, F Racimo, C Rahbek, JT Rasic, A Rouillard, AH Ruter, B Skadhauge, JI Svendsen, A Tikhonov, L Vinner, P Wincker, Y Xing, Y Zhang, DJ Meltzer, E Willerslev. 2022. Reply to: When did mammoths go extinct? *Nature* 612 E4-6. doi: 10.1038/s41586-022-05417-2.
- Peterson, AT, ME Aiello-Lammens, G Amatulli, RP Anderson, ME Cobos, JAF Diniz-Filho, LE Escobar, X Feng, J Franklin, LMR Gadelha Jr., D Georges, M Guéguen, T Gueta, K Ingenloff, S Jarvie, L Jiménez, DN Karger, JM Kass, MR Kearney, R Loyola, F Machado-Stredel, E Martínez-Meyer, C Merow, ML Mondelli, S Ribeiro Mortara, R Muscarella, CE Myers, B Naimi, D Noesgaard, I Ondo, L Osorio-Olvera, **HL Owens**, R Pearson, GE Pinilla-Buitrago, A Sánchez-Tapia, EE Saupe, W Thuiller, S Varela, DL Warren, J Wiczeorek, K Yates, G Zhu, G Zuquim, D Zurell. 2022. ENM2020: A free online course and set of resources on modeling species niches and distributions. *Biodiversity Informatics* 17: 1-9. doi: 10.17161/bi.v17i.15016.
- Wang, Y, MW Pedersen, IG Alsos, B De Sanctis, F Racimo, E Coissac, **HL Owens**, MKF Merkel, A Fernandez-Guerra, A Rouillard, Y Lammers, A Alberti, F Denoeud, D Money, AH Ruter, H McColl, NK Larsen, AA Cherezova, ME Edwards, GB Fedorov, J Haile, L Orlando, L Vinner, TS Korneliussen, DW Beilman, AA Bjørk, J Cao, C Dockter, J Esdale, G Gusarova, KK Kjeldsen, J Mangerud, JT Rasic, B Skadhauge, JI Svendsen, A Tikhonov, P Wincker, Y Xing, Y Zhang, DG Froese, C Rahbek, D Nogués-Bravo, PB Holden, NR Edwards, R Durbin, DJ Meltzer, KH Kjær, P Möller, E Willerslev. 2021. Late Quaternary dynamics of Arctic biota revealed by ancient environmental metagenomics. *Nature* 600: 86-92. doi: 10.1038/s41586-021-04016-x.
- Owens, HL**, C Merow, B Maitner, J Kass, V Barve, R Guralnick. 2021. occCite: Tools for querying and managing large biodiversity occurrence datasets. *Ecography* 44: 1228-35. doi: 10.1111/ecog.05618.
- James, V, **HL Owens**, RP Guralnick, J Krieger. 2021. Revealing receiver bias in the communication of mapped biodiversity patterns. *Frontiers in Biogeography* 13: e49487. doi: 10.21425/F5FBG49487.
- Owens, HL**, DS Lewis, FL Condamine, AY Kawahara, RP Guralnick. 2020. Comparative phylogenetics of Papilio butterfly wing shape and size demonstrates independent hindwing and forewing evolution. *Systematic Biology*. 69: 813-9. doi: 10.1093/sysbio/syaa029
- Hosner, PA, **HL Owens**, R Kimball, E Braun. 2020. Phylogeny and diversification of the gallopheasants (Aves: Galliformes): testing roles of sexual selection and environmental niche divergence. *Zoologica Scripta*. 49: 549–562. doi: 10.1111/zsc.12441. **Highly cited.**
- Owens, HL**, V Ribiero, EE Saupe, ME Cobos, PA Hosner, JC Cooper, AM Samy, V Barve, N Barve, CJ Muñoz-R, AT Peterson. 2020. Acknowledging uncertainty in evolutionary reconstructions of ecological niches. *Ecology and Evolution*. 10: 6967-77. doi: 10.1002/ece3.6359
- Merow, C, BS Maitner, **HL Owens**, JM Kass, BJ Enquist, W Jetz, RP Guralnick. 2019. Species' range model metadata standards: RMMS. *Global Ecology and Biogeography*. 28: 1912-24. doi: 10.1111/geb.12993
- Owens, HL**, RP Guralnick. 2019. climateStability: An R package to estimate climate stability from time-slice climatologies. *Biodiversity Informatics*. 14: 8-13. doi: 10.17161/bi.v14i0.9786
- Allen, JM, CC Germain-Aubrey, N Barve, KM Neubig, LC Majure, SW Laffan, BD Mishler, **HL Owens**, SA Smith, WM Whitten, JR Abbott, DE Soltis, RP Guralnick, PS Soltis. 2019. Spatial phylogenetics of Florida vascular plants: The effects of tree uncertainty and ultrametricity. *iScience* 11: 57-70. doi: 10.1016/j.isci.2018.12.002¹
- Williams, R, **HL Owens**, J Clamp, AT Peterson, A Warren, M Martin-Cereceda. 2018. Endemicity and climatic niche differentiation in three marine ciliated protists. *Limnology and Oceanography* 63: 2727-36. doi: 10.1002/lno.11003.

- Kawahara, AY, D Plotkin, C Hamilton, H Gough, R St Laurent, **HL Owens**, NT Homziak, JR Barber. 2018. Diel behavior in moths and butterflies: A synthesis of data illuminates the evolution of temporal activity. *Organisms Diversity and Evolution*. 18: 13-27. doi: 10.1007/s13127-017-0350-6.
- Owens, HL**, DS Lewis, JR Dupuis, AL Clamens, FAH Sperling, AY Kawahara, FL Condamine. 2017. Latitudinal diversity gradient in New World swallowtail butterflies investigated with multi-evidence approach uncovers contrasting patterns of out-of- and into-the-tropics dispersal. *Global Ecology and Biogeography* 26: 1447-58. doi: 10.1111/geb.12672
- Saupe, EE, N Barve, **HL Owens**, J Cooper, PA Hosner, AT Peterson. 2017. Reconstructing ecological niche evolution when niches are incompletely characterized. *Systematic Biology* 67: 428-38. doi: 10.1093/sysbio/syx084
- Ingenloff, K, CM Hensz, T Anamza, V Barve, LP Campbell, JC Cooper, ED Komp, L Jimenez, KV Olson, L Osorio-Olvera, **HL Owens**, AT Peterson, AM Samy, M Simões, J Soberón. 2017. Predictable invasion dynamics in North American populations of the Eurasian Collared Dove *Streptopelia decaocto*. *Proceedings of the Royal Society B* 284: 20171157. doi: 10.1098/rspb.2017.1157
- Gurgel-Gonçalves, R, ED Komp, LP Campbell, A Khalighifar, J Mellenbruch, VJ Mendonça, **HL Owens**, K de la Cruz Felix, AT Peterson, JM Ramsey. 2017. Automated identification of insect vectors of Chagas disease in Brazil and Mexico: The Virtual Vector Lab. *PeerJ* 5: e3040. doi: 10.7717/peerj.3040.
- Hosner, PA, MJ Andersen, MB Robbins, A Urbay-Tello, L Cueto-Aparicio, K Verde-Guerra, LA Sánchez González, AG Navarro-Sigüenza, RL Boyd, J Núñez, J Tiravanti, M Combe, **HL Owens**, AT Peterson. 2015. Avifaunal surveys of the Apurímac river valley, Ayacucho and Cuzco departments, Peru: new distributional records and biogeographic, taxonomic, and conservation implications. *Wilson Journal of Ornithology* 127: 563-81. doi: 10.1676/14-178.1²
- Owens, HL**. 2015. Evolution of codfishes (Teleostei: Gadinae) in geographical and ecological space: evidence that physiological limits drove diversification of subarctic fishes. *Journal of Biogeography* 42: 1091-102. doi: 10.1111/jbi.12483.
- Manthey, JD, LP Campbell, EE Saupe, J Soberón, CM Hensz, CE Myers, **HL Owens**, K Ingenloff, AT Peterson, N Barve, A Lira-Noriega, V Barve. 2015. A test of niche centrality as a determinant of population trends and conservation status in threatened and endangered North American birds. *Endangered Species Research* 26: 201-8. doi: 10.3354/esr00646.
- Owens, HL**. 2014. Closing the gap between researchers and policymakers: Lessons from the history of fisheries management in the United States. *Society and Natural Resources* 27: 1339-45. doi: 10.1080/08941920.2014.933930.
- Owens, HL**, LP Campbell, LL Dornak, EE Saupe, N Barve, J Soberon, K Ingenloff, A Lira-Noriega, CM Hensz, CE Myers, AT Peterson. 2013. Constraints on interpretation of ecological niche models by limited environmental ranges on calibration areas. *Ecological Modelling* 263: 10-8. doi: 10.1016/j.ecolmodel.2013.04.011. **Highly cited.**
- Barve, N, AJ Bonilla, J Brandes, JC Brown, N Brunsell, FV Cochran, RJ Crosthwait, J Gentry, LM Gerhart, T Jackson, AJ Kern, KS Oberhauser, **HL Owens**, AT Peterson, AS Reed, J Soberón, AD Sundberg, LM Williams. 2012. Climate-change and mass mortality events in overwintering monarch butterflies. *Revista Mexicana de Biodiversidad* 83: 817-24. doi: 10.22201/ib.20078706e.2012.3.1264.
- Saupe, EE, V Barve, CE Myers, J Soberon, N Barve, CM Hensz, AT Peterson, **HL Owens**, A Lira-Noriega. 2012. Variation in niche and distribution model performance: The need for a priori assessment of key causal factors. *Ecological Modelling* 237: 11-22. doi: 10.1016/j.ecolmodel.2012.04.001. **Highly cited.**

Owens, HL, AC Bentley, AT Peterson. 2012. Predicting suitable environments and potential occurrences for coelacanths (*Latimeria* spp.). *Biodiversity and Conservation* 21: 577-87. doi: 10.1007/s10531-011-0202-1.

RESEARCH GRANTS

- 2020 – 2022 European Commission Marie Skłodowska-Curie Individual Fellowship 891702. MARDIGRAS: Elucidating MARine DIversity GRAdients with Empirical and Mechanistic ModelS. **Principal Investigator**. Equivalent of \$227,546.
- 2017 University of Florida Biodiversity Institute Seed Grant. BridgeTree: A Toolbox to Mobilize Big Biodiversity Data to Understand and Communicate Pattern and Process, **Principal Investigator**. \$45,000.
- 2015 – 2017 NSF DBI 1523732. Postdoctoral Fellowship in Biology. Out of the Tropics and Out of the Drawer: Integrative Analysis of the Tropical Diversity Gradient from Museum Collections of New World Swallowtail Butterflies, **Principal Investigator**. \$138,000.
- 2012 – 2014 NSF DEB 1209917. Dissertation Research. Niche Evolution in Gadine Fishes, Co-Principal Investigator (with Principal Investigator E.O. Wiley). \$14,753.
- 2012 Building a Phylogenetic Framework to Investigate Ecological Niche Evolution. University of Kansas Biodiversity Institute Panorama Grant, **Principal Investigator**. \$700.

INVITED PRESENTATIONS

- Apr 2023 Macroecology in Depth: Estimating Marine Fish Diversity in Three Dimensions, Natural History Museum of Denmark, University of Copenhagen, Copenhagen, Denmark.
- May 2022 Quantitative, repeatable biogeography with AI. Florida Museum of Natural History, University of Florida, Gainesville, Florida.
- Mar 2021 Marine biodiversity gradients: Pattern and process. Centre for Ocean Life, Danish Technical University, Copenhagen, Denmark.
- Jan 2019 Thinking outside the drawer: A diversity of insights from swallowtail butterflies. Center for Macroecology, Evolution, and Climate, University of Copenhagen, Copenhagen, Denmark.
- Oct 2018 Spatial biodiversity modeling in a changing world. Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, Connecticut.
- Apr 2018 Spatial biodiversity modeling in a changing world. Department of Biology, St. Cloud State University, St. Cloud, Minnesota.
- Mar 2017 Biodiversity patterns in swallowtail butterflies: Rethinking tropicality. Department of Biological Sciences, University of New Orleans, New Orleans, Louisiana.
- Oct 2016 Biodiversity patterns in swallowtail butterflies: Rethinking tropicality. McGuire Center Seminar, Florida Museum of Natural History, Gainesville, Florida.
- Nov 2015 Toward total-evidence biogeography: Uniting comparative phylogenetics and macroecology. Department of Biological Sciences Ecology and Evolution Seminar, University of Alberta, Edmonton, Alberta, Canada.
- Mar 2015 Uniting niche modeling and comparative phylogenetics to infer codfish biogeographic history. Global Online Seminar in Biodiversity Informatics, University of Kansas. Lawrence, Kansas. <https://www.youtube.com/watch?v=DArfCVrjzIU>.
- Mar 2015 Evolution of codfishes in geographical and ecological space: climate change and diversification of subarctic fishes. Department of Biology Graduate Colloquium, University of Northern Iowa. Cedar Falls, Iowa.
- Feb 2014 Ecology, evolution, and biogeography of codfishes. Department of Biology Seminar Series,

Regis University. Denver, Colorado.

Mar 2012 Whither cod? Incorporating climate model data into ecological niche models. National Center for Atmospheric Research Mesa Lab Research Reports. Boulder, Colorado.

CONFERENCE PRESENTATIONS

- Jun 2022 Macroecology in depth: Estimating fish diversity in three dimensions. Presenting author, on-demand video oral presentation. International Biogeography Society. Vancouver, Canada.¹
- Oct 2021 New R tools to efficiently acquire, visualize, and cite data. Presenting author, poster presentation. Early Career Biogeographers Conference, International Biogeography Society. Amsterdam, The Netherlands.
- Jul 2021 Macroecology in depth: Estimating fish diversity in three dimensions. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists. Phoenix, Arizona.
- Jul 2021 Data, data, everywhere, but not a DOI in cite. Presenting author, poster presentation. Joint Meeting of Ichthyologists and Herpetologists. Phoenix, Arizona.
- Jan 2020 Combining phylogenies and ecological data layers. Invited panelist. Society of Systematic Biologists 2020: Systematics in the Swamp. Gainesville, Florida.
- Jul 2018 MicroCT scanning to examine parasitic male attachment in the Triplewart Sea-Devil (*Cryptosaras couesii*). Presenting author, poster presentation. Joint Meeting of Ichthyologists and Herpetologists. Rochester, New York.
- Nov 2017 From the tropics to the drawer and back: Digitized New World swallowtail butterfly specimens inform diversity patterns. Presenting author, oral presentation. Entomology 2017. Denver, Colorado.
- Jul 2017 Seeing the invisible: Biogeographic breaks in circumtropical billfishes (Istiophoriformes). Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists. Austin, Texas.
- Oct 2016 Biodiversity patterns in swallowtail butterflies: Rethinking tropicality. Presenting author, oral presentation. Southern Lepidopterists' Society. Gainesville, Florida.
- Sept 2016 Out of or into the tropics? Processes underlying biodiversity patterns in New World swallowtail butterflies. Presenting author, oral presentation. XXV International Congress of Entomology. Orlando, Florida.
- Aug 2016 New method for photographing and automatically identifying triatomines. Poster presentation. 52nd Congress of the Brazilian Society of Tropical Medicine. Maceió, Brazil.²
- Jun 2016 Out of or into the tropics? Processes underlying biodiversity patterns in New World swallowtail butterflies. Presenting author, oral presentation. Evolution 2016. Austin, Texas.
- Jul 2015 Holocene Pacific cod (*Gadus macrocephalus*) distributional changes: Ecological niche models and archeological evidence. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists. Reno, Nevada.
- Jul 2014 Investigating modes of speciation in trans-Isthmian haemulid grunts. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists. Chattanooga, Tennessee.
- Jun 2014 Investigating modes of speciation in trans-Isthmian haemulid grunts. Presenting author, oral presentation. Evolution 2014. Raleigh, North Carolina.

¹ Best on-demand talk, International Biogeography Society

² Best work, Vectors & Reservoirs Area, 52nd Congress of the Brazilian Society of Tropical Medicine

- Jan 2014 Incorporating phylogenetics and ecological niche modeling for biogeographic analysis. Presenting author, oral presentation. International Biogeography Society Early Career Conference. Canberra, Australia.
- Jul 2013 A Phylogenetic Approach to Niche Evolution in Gadine Fishes. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, New Mexico.
- Jun 2013 A phylogenetic approach to niche evolution in gadine fishes. Presenting author, oral presentation. Evolution 2013. Snowbird, Utah.
- Aug 2012 Niche conservatism in gadine fishes. Presenting author, oral presentation. World Congress of Herpetology. Vancouver, British Columbia, Canada.
- May 2012 I wonder where that fish will go? Predicting ecological shifts in the Northwest Atlantic. Presenting author, poster and video presentations. NSF IGERT Video and Poster Competition. Washington, D.C.
- Dec 2011 Ecological niche modeling as a tool for anticipating the potential geography of invasive species. Presenting author, oral presentation. Midwest Fish and Wildlife Conference. Des Moines, Iowa.
- Jul 2011 Climate change and the distributions of Atlantic fishes: A correlative modeling approach. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, Minnesota.
- Jul 2010 Predicting the distributions of the coelacanths *Latimeria chalumnae* and *Latimeria menadoensis*. Presenting author, oral presentation. Joint Meeting of Ichthyologists and Herpetologists, Providence, Rhode Island.
- Aug 2008 Multiple species of *Phoreiobothrium* from the Blacktip Shark, *Carcharhinus limbatus*, from the Gulf of Mexico. Oral Master's Thesis Presentation. Department of Ecology and Evolutionary Biology, University of Kansas. Lawrence, Kansas.
- Jun 2008 Multiple species of *Phoreiobothrium* from the Blacktip Shark, *Carcharhinus limbatus*, from the Gulf of Mexico. Presenting author, oral presentation. American Society of Parasitology. Arlington, Texas.
- Apr 2008 Multiple species of *Phoreiobothrium* from the Blacktip Shark, *Carcharhinus limbatus*, from the Gulf of Mexico. Presenting author, oral presentation. Southwest Association of Parasitologists. Lake Texoma, Oklahoma.

TEACHING EXPERIENCE

University of Copenhagen (2019-2023):

Ecological Data Analysis with R, SGBB22001U (guest lecturer, 2 lectures, 1 semester)

International Nature Conservation, SGBK20011U (guest lecturer, 1 lecture, 1 semester)

Invasion Biology, NBIK14017U (guest lecturer, 1 lecture, 1 semester)

Modelling Species Distributions Under Climate Change, 3173-21-00-00 (practical instructor, 1-week course, 2 semesters)

Climate Change and Biodiversity, NNMK15003U (guest lecturer, 1 lecture; guest instructor on final student projects, 3 semesters)

Macroecology and Community Ecology, SGBK20002U (guest lecturer, 1 lecture, 3 semesters)

GLOBE Data Science R Working Group (assisting coordinator and co-lead instructor, 2019-2022)

Geological Society of America (2022):

Paleontological Society Short Course: Ecological Models Applied to Fossil Data (instructor, 1-day course, Denver, Colorado)

University of Nevada, Reno (2019):

R Workshop (instructor; 1 day course)

World Maritime University (2019):
 QGIS for spatial analysis (visiting professor; 2-day course, Malmö, Sweden)

Global Biodiversity Information Facility (2018-2022):
 Biodiversity Information for Development: Data Use for Decision Making e-learning curriculum (coach, Ecological Niche Modelling Module)
 Biodiversity Information for Development: Data Use for Decision Making workshop (trainer; 5-day course, Cape Town, South Africa; 4-day course, Auckland, New Zealand; 4-day course, Paramaribo, Suriname; 4-day course, Sarajevo, Bosnia and Herzegovina; 1-day workshop, virtual)

University of Florida (2016-2018):
 Undergraduate Special Topics: Animals and Human Affairs, ZOO4926 (guest lecturer, 1 lecture)
 Graduate Seminar in Ecological Niche Modeling, ZOO6927 (lead instructor, 1 semester)
 Graduate Seminar in Global Change Biology, ZOO 6927 (guest lecturer, 1 lecture)
 ButterflyNet Bioinformatics Workshop (lecturer, 3-day course)

Joint Meeting of Ichthyologists and Herpetologists (2016, 2019):
 R Workshop (course coordinator and lead instructor; 1-day course, New Orleans, Louisiana; 1-day course, Snowbird, Utah)

Haskell Indian Nations University (2010-2013):
 Haskell Environmental Research Studies Summer Institute (mentor, 2 summers)
 Niche Modeling Lightning Course (instructor, 1 day course)
 Introduction to Geographical Information Systems (guest lecturer, 2 lectures)

University of Kansas (2006–2013):
 Principles of Molecular and Cellular Biology, BIOL 150 (lecture teaching assistant, 2 semesters; laboratory teaching assistant, 1 semester; discussion leader, 2 semesters)
 Principles of Organismal Biology, BIOL 152 (lecture teaching assistant, 1 semester; laboratory teaching assistant, 1 semester; discussion leader, 2 semesters)
 Organismal Physiology, BIOL 409 (laboratory teaching assistant, 1 semester)
 Biostatistics, BIOL 570 (laboratory teaching assistant, 1 semester)

GRADUATE STUDENTS MENTORED

Luis Soto; University of Florida; Advisors: Rob Guralnick and Colette St. Mary
 PhD research; Lamniform shark paleoecology

Laura Brenskelle; University of Florida; Advisor: Rob Guralnick
 PhD research; Geographic variation in butterfly wing shape

Daniel Auliz Ortiz; Autonomous University of Baja California Sur; Advisor: Héctor Reyes Bonilla
 Masters project; Modeling coral distributions

UNDERGRADUATE STUDENTS MENTORED

Minji Ku	<i>Tropical vertebrate georeferencing</i>	2017 – 2019	
Dani Hayes	<i>Butterfly morphology</i>	2017	
Scott Fleishman	<i>Butterfly georeferencing</i>	2016 – 2017	
William Walters	<i>Butterfly georeferencing</i>	2016 – 2017	
Chelsea Burgess	<i>Invasive gobies</i>	2013 – 2015	Poster presentation

RESEARCH EXPERIENCE

Nov 2014 Visiting Researcher, Oceanography Section, Climate and Global Dynamics Division, National Center for Atmospheric Research, supervisor Gokhan Danabasoglu. Processing

- and application of decadal climate model and hindcast data for ecological niche modeling.
- 2013 – 2014 Graduate Research Assistant, University of Kansas, supervisor Town Peterson. Quantitative morphometric studies towards an automated identification facility for triatomine bugs, vectors of Chagas disease.
- Spr 2013 Graduate Research Assistant, University of Kansas, supervisor Ed Wiley. Fish measurement, clearing and staining, and fluorescence microscopy.
- Spr 2012 Visiting Researcher, Oceanography Section, Climate and Global Dynamics Division, National Center for Atmospheric Research, supervisor Joanie Kleypas. Processing and application of general circulation model climatological and oceanographic data for ecological niche modeling.
- Sum 2007, 2008 Graduate Research Assistant, University of Kansas, supervisor Kirsten Jensen. Preparation of cestodes of sharks from the Gulf of Mexico for examination with light microscopy, databasing, and collection curation.

HONORS, FELLOWSHIPS, AND AWARDS

- 2022 Best On-Demand Talk, International Biogeography Society Biennial Conference, Vancouver, Canada.
- 2019 Second Place, Ebbe Nielsen Challenge, Global Biodiversity Information Facility (GBIF), equivalent of \$5,600.
- 2019 Marie Skłodowska-Curie Actions Seal of Excellence, European Union/European Commission.
- 2017 Postdoctoral fellowship, National Institute for Mathematical and Biological Synthesis (NIMBioS), \$102,000. *Offered, but declined.*
- 2016 Best work: Vectors and reservoirs, Brazilian Society of Tropical Medicine, 52nd Congress of the Brazilian Society of Tropical Medicine.
- 2009 – 2015 NSF IGERT Fellow, \$60,000.
- 2013 Student travel award, International Biogeography Society, \$350.
- 2011 Second place presentation, University of Kansas Biodiversity Institute Graduate Student Organization Annual Retreat.
- 2010 Third place presentation, University of Kansas 9th Annual GIS Day.
- 2010 First place presentation, University of Kansas Biodiversity Institute Graduate Student Organization Annual Retreat.
- 2010 Michael S. Gaines Award for Excellence in Teaching, Principles of Biology Laboratory.
- 2008 Marc Dresden Student Travel Grant, Southwest Association of Parasitologists.

INSTITUTIONAL SERVICE

- 2021 – pres Vice-Chair, Diversity Committee, GLOBE Institute, University of Copenhagen
- 2019 – 2021 Member, Diversity Allies Initiative, GLOBE Institute, University of Copenhagen
- 2017 – 2018 President, Florida Museum of Natural History Postdoc Association, University of Florida
- 2014 – 2015 Graduate Student Representative, Biodiversity Institute Strategic Planning Committee, University of Kansas
- 2013 – 2015 Member, Natural History Museum Student Advisory Committee, University of Kansas
- 2012 Graduate Student Representative, Ecology and Evolutionary Biology Systematic Ichthyologist Job Search Committee, University of Kansas
- 2011 – 2012 Member, Ecology and Evolutionary Biology Graduate Program Committee, University of Kansas
- 2009 – 2010 Graduate Student Representative, Ecology and Evolutionary Biology Executive Committee, University of Kansas

- 2008 – 2015 Volunteer Specimen Preparator, Division of Ornithology, University of Kansas Biodiversity Institute
- 2006 – 2015 Member, Ecology and Evolutionary Biology Graduate Student Organization, University of Kansas
- 2006 – 2010 Member, Biodiversity Institute Graduate Student Organization, University of Kansas
- 2006 Graduate Student Representative, Ecology and Evolutionary Biology Sabbatical Leave committee, University of Kansas

SOCIETY MEMBERSHIP AND SERVICE

- 2022 – Pres Board of Governors, American Society of Ichthyologists and Herpetologists
- 2022 – Pres Member, Paleontological Society of America
- 2022 – Pres Long Range Planning and Policy Committee, American Society of Ichthyologists and Herpetologists
- 2019 – Pres Awards Committee, Society of Systematic Biologists
- 2019 – Pres Member, Society of Systematic Biologists
- 2018 – Pres Editorial Board, *Ichthyology and Herpetology*
- 2016 – 2019 Member, Entomological Society of America
- 2014 – pres Member, International Biogeography Society
- 2014 – 2016 Ad-Hoc Committee on Membership, American Society of Ichthyologists and Herpetologists
- 2010 – 2015 Member, Graduate Student Organization, American Society of Ichthyologists and Herpetologists
- 2012 – 2019 Member, Society for the Study of Evolution
- 2010 – pres Member, American Society of Ichthyologists and Herpetologists
- 2006 – 2009 Member, American Society of Parasitologists
- 2006 – 2009 Member, Southwestern Association of Parasitologists

PEER REVIEWS

Acta Ecologica Sinica (1), *Acta Biotheoretica* (1), *Advances in Geosciences* (1), *Ambio* (1), *The American Naturalist* (4), *Animal Conservation* (1), *Biodiversity Informatics* (3), *Biological Invasions* (1), *Biological Journal of the Linnean Society* (1), *Canadian Journal of Zoology* (2), *Climate Change Responses* (1), *The Condor* (3), *Current Biology* (1), *Diversity and Distributions* (3), *Ecography* (6), *Ecological Applications* (1), *Ecological Modelling* (1), *Ecological Research* (1), *Ecology and Evolution* (1), *Ecosystems* (2), *Entropy* (1), *Environmental Modelling and Assessment* (1), *Global Ecology and Biogeography* (1), *Hydrobiologia* (1), *Journal of Animal Ecology* (1), *Journal of Avian Biology* (1), *Journal of Biogeography* (15), *Journal of Forest Research* (1), *Journal of Ornithology* (1), *Journal of Plant Ecology* (2), *Limnology and Oceanography* (2), *Marine Ecology Progress Series* (4), *Methods in Ecology and Evolution* (4), *Nature Ecology and Evolution* (2), *North American Journal of Fisheries Management* (1), *Paleoceanography* (1), *PCI Evolutionary Biology* (1), *PEERJ* (2), *Proceedings of the Royal Society B* (6), *PLoS One* (3), *Royal Society Open Science* (2), *Saudi Journal of Biological Sciences* (1), *Systematics and Biodiversity* (2), *Systematic Biology* (1), *Scientific Data* (3), *Southwestern Naturalist* (1), *Zootaxa* (1)