

# KEVIN R. BURGIO, PHD

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 @KRBurgio  @KRBurgio



## PROFESSIONAL EXPERIENCE

- 2022 - **NE CASC Postdoctoral Fellow**, University of Massachusetts
- 2022 - **ORISE Fellow**, United States Geological Survey
- 2022 - **Consultant Conservation Biologist**, Terwilliger Consulting Inc.
- 2022 - **Academic Editor**, PLOS ONE
- 2020 - **Subject Editor**, Avian Conservation and Ecology
- 2019 - 2022 **Research Scientist**, University of Connecticut
- 2021 - 2022 **Adjunct Professor**, Hunter College
- 2021 - 2021 **Director of Conservation & Science**, New York City Audubon Society
- 2021 - 2021 **Adjunct Professor**, University of Connecticut
- 2019 - 2020 **Undergraduate Program Leader and Research Specialist**, Cary Institute of Ecosystem Studies
- 2017 - 2019 **Postdoctoral Research Associate**, University of Connecticut

## EDUCATION

- 2017 **Ph.D.** (NSF Graduate Research Fellow)  
Ecology and Evolutionary Biology, University of Connecticut
- 2010 **B.A.** (*Summa cum laude*, Goldwater Scholar, University Scholar, Honors Scholar)  
Major: Ecology and Evolutionary Biology, University of Connecticut

**PUBLICATIONS**

Citations: 875. h-index: 14. i10-index: 18. \* denotes an undergraduate mentee

Hess, R.A., O.A. Erickson, R.B. Cole, J.M. Isaacs, S. Alvarez-Clare, J. Arnold, A. Augustus-Wallace, J.C. Ayoob, A. Berkowitz, J. Branchaw, **K.R. Burgio**, et al. 2023. Virtually the same? Evaluating the effectiveness of remote undergraduate research experiences. *LIFE SCIENCES EDUCATION*.

**Burgio, K.R.**, K.E. Davis, L.M. Dreiss, B.T. Klingbeil, L.M. Cisneros, S.J. Presley, C.B. van Rees, and M.R. Willig. 2022. Integrating multiple dimensions of biodiversity to inform global parrot diversity. *ANIMAL BIODIVERSITY AND CONSERVATION*. 45.2:189-202. [DOI: 10.32800/ABC.2022.45.0189](https://doi.org/10.32800/ABC.2022.45.0189)

Capers, R., A. Oeldorf-Hirsch, R. Wyss, **K.R. Burgio**, and M.A. Rubega. 2022. What did they learn? Objective assessment tools show mixed effects of training on science communication behaviors. *Frontiers in Communication*. 6: [DOI:10.3389/fcomm.2021.805630](https://doi.org/10.3389/fcomm.2021.805630)

Erickson, O.A., R.B Cole, J.M. Isaacs, S. Alvarez-Clare, J. Arnold, A. Augustus-Wallace, J. Ayoob, A. Berkowitz, J. Branchaw, **K.R. Burgio**, et al. 2022. "How do we do this at a distance?!" A descriptive study of remote Research Experiences for Undergraduates sites during COVID19. *LIFE SCIENCES EDUCATION*. 21(1): 1-16. [DOI: 10.1187/cbe.21-05-0125](https://doi.org/10.1187/cbe.21-05-0125)

**Burgio, K.R.**, C.J. Carlson, A.L. Bond, M.A. Rubega, and M.W. Tingley. 2021. The two extinctions of the Carolina Parakeet (*Conuropsis carolinensis*). *BIRD CONSERVATION INTERNATIONAL*. 1-8. [DOI:10.1017/S0959270921000241](https://doi.org/10.1017/S0959270921000241)

News coverage: [New York Times](#), [National Geographic](#), [New Scientist](#), [Spektrum Magazine](#)

**Burgio, K.R.** 2021. Night Parrot: Australia's Most Elusive Bird. *ORNITHOLOGICAL APPLICATIONS*. 123: 1-2. [DOI:10.1093/ornithapp/duaa070](https://doi.org/10.1093/ornithapp/duaa070)

Rubega, M.A., **K.R. Burgio**, R.S. Capers, A.A.M. MacDonald, A. Oeldorf-Hirsch, and R. Wyss. 2021. Assessment by audiences shows little effect of science communication training. *SCIENCE COMMUNICATION*. 43(2):139-169. [DOI:10.1177/1075547020971639](https://doi.org/10.1177/1075547020971639)

**Burgio, K.R.**, C.R. van Rees, K.E. Block\*, P. Pyle, M.A. Patten, M. Spreyer, and E.H. Bucher. 2020. Monk Parakeet (*Myiopsitta monachus*) v. 1.0 in *BIRDS OF THE WORLD* (P. Rodewald ed.). Ithaca: Cornell Lab of Ornithology. [DOI: 10.2173/bow.monpar.01](https://doi.org/10.2173/bow.monpar.01)

Brightsmith, D., **K.R. Burgio**, B.J. Hiller, K.E. Block\*, P. Pyle, and M.A. Patten. 2020. White-winged Parakeet (*Brotogeris versicolorus*) v. 1.0 in *BIRDS OF THE WORLD* (P. Rodewald ed.). Ithaca: Cornell Lab of Ornithology. [DOI: 10.2173/bow.whwpar.01](https://doi.org/10.2173/bow.whwpar.01)

Gravely, J.\*, **K.R. Burgio**, and M.A. Rubega. 2020. A Method for Measuring the Thermal Insulation Value of Bird Feather Coats. *JOURNAL OF VISUALIZED EXPERIMENTS*. 160: e60981, [DOI:10.3791/60981](https://doi.org/10.3791/60981)

Brightsmith, D., **K.R. Burgio**, B.J. Hiller, K.E. Block\*, P. Pyle, and M.A. Patten. 2020. Yellow-chevroned Parakeet (*Brotogeris chiriri*) v. 1.0 in *Birds of the World* (P. Rodewald ed.). Ithaca: Cornell Lab of Ornithology. [DOI: 10.2173/bow.yecpar.01](https://doi.org/10.2173/bow.yecpar.01)

**Burgio, K.R.**, C.M. MacKenzie, S.B. Borelle, S.K.M. Ernest, J.L. Gill, K.E. Ingeman, A. Teffer, and E.P. White. 2020. Ten Simple Rules for a Successful Remote Postdoc. *PLOS COMPUTATIONAL BIOLOGY*. 16(5): e1007809. [DOI: 10.1371/journal.pcbi.1007809](https://doi.org/10.1371/journal.pcbi.1007809)

News coverage: [Science](#), [Nature](#), [Inside Higher Ed](#)

Bahlai, C. L.J. Bartlett, **K.R. Burgio**, A.M.V. Fournier, C.N. Keiser, T. Poisot, K. Stack Whitney. 2019. Open Science Isn't Always Open to All Scientists. *AMERICAN SCIENTIST* 107: 78-83. [DOI: 10.1511/2019.107.2.78](https://doi.org/10.1511/2019.107.2.78)

Bond, A.L., C.J. Carlson, and **K.R. Burgio**. 2019. Local extinction of insular avifauna on the most remote inhabited island in the world. *JOURNAL OF ORNITHOLOGY*. 160: 49-60.

Carlson, C.J., **K.R. Burgio**, T.A. Dallas, and W.M. Getz. 2019. The mathematics of extinction across scales: from populations to the biosphere. In: Kaper H., Roberts F. (eds) *MATHEMATICS OF PLANET EARTH, VOL 5*. Springer, Cham. [DOI: 10.1007/978-3-030-22044-0\\_9](https://doi.org/10.1007/978-3-030-22044-0_9)

**Burgio, K.R.**, K.E. Davis, L.M. Dreiss, B.T. Klingbeil, L.M. Cisneros, S.J. Presley, and M.R. Willig. 2019. A complete phylogenetic supertree and trait database for all extant parrots. *DATA IN BRIEF* 24: 103882. [DOI: 10.1016/j.dib.2019.103882](https://doi.org/10.1016/j.dib.2019.103882)

Kosman, E., **K.R. Burgio**, S.J. Presley, M.R. Willig, and S.M. Scheiner. 2019. Conservation prioritization based on trait-based metrics illustrated with global parrot distributions. *DIVERSITY AND DISTRIBUTIONS*. 25: 1156-1165. [DOI: 10.1111/ddi.12923](https://doi.org/10.1111/ddi.12923)

Carlson, C.J., A.L. Bond, and **K.R. Burgio**. 2018. Re-evaluating sighting models, and moving beyond them, to test and contextualize the extinction of the thylacine. *CONSERVATION BIOLOGY*. 32: 1198-1199. [DOI: 10.1111/cobi.13187](https://doi.org/10.1111/cobi.13187)

News coverage: [IFLScience](#)

**Burgio, K.R.**, C.J. Carlson, and A.L. Bond. 2018. Georeferenced sighting and specimen occurrence data of the extinct Carolina Parakeet 1564 - 1944. *BIODIVERSITY DATA JOURNAL*. 6: e25280. [DOI: 10.3897/BDJ.6.e25280](https://doi.org/10.3897/BDJ.6.e25280)

News coverage: [Pensoft Blog](#), [History of Ornithology](#)

Carlson, C.J., A.L. Bond, and **K.R. Burgio**. 2018. Estimating the extinction date of the Thylacine accounting for unconfirmed sightings. *CONSERVATION BIOLOGY*. 32: 477-483. [DOI: 10.1111/cobi.13037](https://doi.org/10.1111/cobi.13037)

News coverage: [Vice](#)

Cizauskas, C.A., C.J. Carlson, **K.R. Burgio**, C.F. Clements, N.C. Harris, E.R. Dougherty, and A.J. Phillips. 2017. Parasite vulnerability to climate change: an evidence-based functional trait approach. *ROYAL SOCIETY OPEN SCIENCE*. 4: 160535. [DOI: 10.1098/rsos.160535](https://doi.org/10.1098/rsos.160535)

**Burgio, K.R.**, C.J. Carlson, and M.W. Tingley. 2017. Lazarus ecology: recovering the natural history of the extinct Carolina parakeet. *ECOLOGY & EVOLUTION*. 7:5467-5475. [DOI: 10.1002/ece3.3135](https://doi.org/10.1002/ece3.3135)

News coverage: [Washington Post](#), [New York Times](#), [National Geographic](#), [IFLScience](#), [Salon](#), [Smithsonian Magazine](#), [Birding Magazine](#), [Forbes](#), [Audubon Magazine](#), [Stuff You Missed in History Class](#)

Carlson, C.J, **K.R. Burgio**, E.R. Dougherty, A.J. Phillips, V.M. Bueno, C.F. Clements, G. Castaldo, T. Dallas, C.A. Cizauskas, G. Cumming, J. Doña, N.C. Harris, R. Jovani, S. Mironov, O. Muellerklein, H.C. Proctor, and W.M. Getz. 2017. Parasite biodiversity faces extinction and redistribution in a changing climate. *SCIENCE ADVANCES*. 3(9): e1602422 [DOI: 10.1126/sciadv.1602422](https://doi.org/10.1126/sciadv.1602422).

News coverage: [NY Times](#), [Popular Science](#), [Smithsonian Magazine](#), and [the Guardian](#).

Lopez, B.E., **K.R. Burgio**, M.B. Carlucci, K.A. Palmquist, A. Parada, V. Weinberger, and A.H. Hurlbert. 2016. A new framework for inferring community assembly processes using phylogenetic information, relevant traits and environmental gradients. *ONE ECOSYSTEM*. 1: e9501. [DOI: 10.3897/oneeco.1.e9501](https://doi.org/10.3897/oneeco.1.e9501)

Dougherty, E.R., C.J. Carlson, V.M. Bueno, **K.R. Burgio**, C.A. Cizauskas, C.F. Clements, D.P. Seidel, and N.C. Harris. 2015. Paradigms for parasite conservation. *CONSERVATION BIOLOGY*. 30: 724-733. [DOI: 10.1111/cobi.12634](https://doi.org/10.1111/cobi.12634)

News coverage: [The Atlantic](#) and [Carbon Brief](#)

Dreiss, L.M., **K.R. Burgio**, L.M. Cisneros, B.T. Klingbeil, B.D. Patterson, S.J. Presley, and M.R. Willig. 2015. Multiple dimensions of biodiversity for rodents along an extensive tropical elevational gradient: taxonomic, functional, and phylogenetic perspectives. *ECOGRAPHY*. 38: 876-888. [DOI: 10.1111/ecog.00971](https://doi.org/10.1111/ecog.00971)

**Burgio, K.R.**, M.A. Rubega, and D. Sustaita. 2014. Nest-building behavior of Monk Parakeets and insights into potential mechanisms for reducing damage to utility poles. *PEERJ*. 2: e601 [DOI:10.7717/peerj.601](https://doi.org/10.7717/peerj.601)

News coverage: [NPR](#), [New Hampshire Public Radio](#), and [Hartford Business Journal](#)

Cisneros, L.M., **K.R. Burgio**, L.M. Dreiss, B.T. Klingbeil, B.D. Patterson, S.J. Presley, and M.R. Willig. 2014. Elevational variation of multiple dimensions of biodiversity in bats. *JOURNAL OF ANIMAL ECOLOGY*. 83: 1124-1136. [DOI: 10.1111/1365-2656.12201](https://doi.org/10.1111/1365-2656.12201)

Carlson, C.J., C.A. Cizauskas, **K.R. Burgio**, C.F. Clements, and N.C. Harris. 2013. The more parasites, the better? *SCIENCE*. 342:1041. [DOI: 10.1126/science.342.6162.1041-a](https://doi.org/10.1126/science.342.6162.1041-a)

### **Manuscripts in review**

**Burgio, K.R.**, L.M. Cisneros, K.E. Davis, L.M. Dreiss, B.T. Klingbeil, S.J. Presley, and M.R. Willig. *In review*. Dimensions of passerine biodiversity along a tropical elevational gradient: a nexus for historical biogeography and contemporary ecology. *JOURNAL OF AVIAN BIOLOGY*. Preprint available: *BIORXIV* 842138. [DOI: 10.1101/842138](https://doi.org/10.1101/842138)

MacPherson, M.P., **K.R. Burgio**, M.G. DeSaix, B.G. Freeman, J. Herbert, R. Herman, V. Jirinec, J. Shonfield, D.L. Slager, C.B. van Rees, and J.E. Jankowski. *In review*. Predicting Bird Distributions Under Climate Change. *DIVERSITY AND DISTRIBUTIONS*. Preprint available: *BIORXIV* [DOI: 10.1101/2021.05.26.445867](https://doi.org/10.1101/2021.05.26.445867)

Gravely, J.\*, **K.R. Burgio**, and M.A. Rubega. *In review*. Seasonal Plumage Condition Variation and the Thermal Value of the Feather Coats of House Sparrows (*Passer domesticus*). *JOURNAL OF AVIAN BIOLOGY*.

### **Preprints not currently in review**

Carlson, C.J., **K.R. Burgio**, T.A. Dallas, and A.L. Bond. 2018. Spatial extinction date estimation: a novel method for reconstructing spatiotemporal patterns of extinction and identifying potential zones of rediscovery. *BIORxIV* 279679. [DOI: 10.1101/279679](https://doi.org/10.1101/279679)

Carlson, C.J., O.C. Mullerklein, A.J. Phillips, **K.R. Burgio**, G. Castaldo, C.A. Cizauskas, G. Cumming, T.A. Dallas, J. Dona, Z. Miao, H. Proctor, H.S. Yoon, and W.M. Getz. 2017. The Parasite Extinction Assessment Red List (PEARL): an extensible, open-source, online biodiversity database for neglected invertebrates. *BIORxIV* 192351. [DOI: 10.1101/192351](https://doi.org/10.1101/192351)

### **SCIENCE COMMUNICATION / NON-RESEARCH PRODUCTS**

**Burgio, K.R.** 2021. The Extinction of the Carolina Parakeet with Kevin Burgio. *Bird Emergency Podcast* ([link](#))

**Burgio, K.R.** 2021. "Burgio's Bird." *The Urban Audubon* ([link](#))

**Burgio, K.R.** 2020, Kickstart your science career with a summer research experience. *CARY INSTITUTE OF ECOSYSTEM STUDIES BLOG* ([link](#))

**Burgio, K.R.** 2018. The mysterious and tragic story of America's only endemic parrot, now extinct for 100 years. **WASHINGTON POST** ([link](#)), **IFLSCIENCE** ([link](#)), **SALON** ([link](#)), **REAL CLEAR SCIENCE** ([link](#)), and **THE CONVERSATION** ([link](#)); > 100,000 reads.

**Burgio, K.R.** 2018. Carpe diem: Stories about seizing the day. *THE STORY COLLIDER PODCAST* ([link](#)).

### **R PACKAGES**

Burnett, J. and **K.R. Burgio**. 2021. `parrottraits`: an R package for interfacing with the Parrot Traits Database ([url](#))

### **PATENTS**

**Burgio, K.R.** and M.A. Rubega. 2013. Monk Parakeet Utility Pole Exclusion Device. Provisional Patent # 61/842,608. USA. Filed: 7/3/2013.

## RESEARCH GRANTS, AWARDS, AND FELLOWSHIPS

### Career Total: \$224,736

- 2021 (\$55,000) FAO Schwarz Fellowship Grant Program (co-author)  
2018 (\$1100) American Ornithology Society Travel Award  
**2011 - 2016 (\$121,000) National Science Foundation Graduate Fellow**  
2016 (\$4671) Experiment crowdfunded project (co-PI w/G. Smith-Vidaurre)  
2016 (\$750) UConn Doctoral Student Travel Award  
2016 (\$125) American Ornithologists Union Travel Award  
2016 (\$2000) UConn Dissertation Fellowship  
2016 (\$840) UConn EEB Summer Support Grant  
2015 (\$500) UConn EEB Summer Support Grant  
2014 (\$2,850) UConn EEB Summer Support Grant  
2013 (\$500) UConn EEB Summer Support Grant  
2013 (\$17,000) UConn Faculty Large Grant (co-author, M. Rubega P.I.)  
2013 (\$375) George Clark Jr. Connecticut Natural History Museum Award  
2010 (\$150) Connecticut Natural History Museum Award  
2010 (\$1500) Edwin V. Gant Memorial Scholarship, UConn  
2009 (\$7500) **Barry Goldwater National Scholarship**  
2009 (\$3500) Treibick Foundation Summer Research Fellowship  
2009 (\$500) UConn Life Sciences Honors Thesis Research Grant  
2009 (\$500) UConn Office of Undergraduate Research Grant  
2009 (\$375) Katie Bu Memorial Grant  
2009 (\$1800) UConn University Scholar Award  
2007 (\$1000) UConn Greater Hartford Campus Scholarship  
2007 (\$200) UConn Hartford Campus Alumni Scholarship

## PRESENTATIONS

### Invited Seminars

- 2022 University of Massachusetts, Amherst, MA USA  
2021 University of California at Davis, Davis, CA, USA  
2021 University of Florida, Gainesville, FL, USA  
2020 University of Maine, Orono, ME, USA  
2020 Cary Institute of Ecosystem Studies, Millbrook, NY, USA  
2020 Queen's College, CUNY, Flushing, New York, USA  
2018 Rutgers University, Newark, New Jersey, USA  
2018 Central Community College, Columbus, Nebraska, USA

2018 Bridgewater State University, Bridgewater, Massachusetts, USA

***International / National Conferences***

**Burgio, K.R.**, K. Cruz\*, N. Jacques\*, E. Murley\*, H. Higgins, A. Lubeck, T. Melvin, T. Rice, K. Terwilliger, and M.D. Staudinger. 2023. A review of biological responses of diadromous fishes to climate change to support the 2025 revisions of the State Wildlife Action Plans. *NORTHEASTERN DIVISION AND SOUTHERN NEW ENGLAND CHAPTER OF THE AMERICAN FISHERIES SOCIETY CONFERENCE*.

**Burgio, K.R.**, R.L. White, F. Montaño-Centellas, K.E. Davis, C.B. van Rees, S.J. Presley, and M.R. Willig. 2020. Mapping trait-based extinction risk: identifying areas of conservation concern for parrots in a changing world. *NORTH AMERICAN ORNITHOLOGICAL CONFERENCE*.

Burnett, J.L., **K.R. Burgio**, and A. Fournier. 2020. USAvian: a tool for enhancing connections among and within the bird management, conservation, and research communities. *NORTH AMERICAN ORNITHOLOGICAL CONFERENCE*.

Rubega, M.A., **K.R. Burgio**, A.A. MacDonald, A. Oeldorf-Hirsch, R. Capers, R. Wyss. 2020. Direct assessment shows little effect of science communication training. *NORTH AMERICAN ORNITHOLOGICAL CONFERENCE*.

Gravely, J.\*, **K.R. Burgio**, and M.A. Rubega. 2020. The thermal performance of worn House Sparrow (*Passer domesticus*) feather coats is even worse than you think. *NORTH AMERICAN ORNITHOLOGICAL CONFERENCE*.

Carlson, C.J., A.J. Phillips, T.A. Dallas, **K.R. Burgio**, and O.C. Muellerklein. 2017. Taking big data for a spin: the georeferenced U.S. National Parasite Collection and what it can do. *ECOLOGICAL SOCIETY OF AMERICA Annual Meeting*, Portland, OR.

Kosman, E., **K.R. Burgio**, S.J. Presley, M.R. Willig, and S.M. Scheiner. 2017. Poster: Using functional diversity to set conservation priorities: a methodology and a case study of global parrot diversity. *INTERNATIONAL BIOGEOGRAPHY SOCIETY Annual Conference*, Tuscon, AZ.

**K.R. Burgio**, K.E. Davis, L.M. Dreiss, L.M. Cisneros, B.T. Klingbeil, S.J. Presley, and M.R. Willig. 2016. Integrating multiple dimensions of biodiversity and

considerations of climate change for parrot conservation. *NORTH AMERICAN ORNITHOLOGICAL CONFERENCE*, Washington, D.C.

Cardillo, C.\*, B. Walker, **K.R. Burgio**, and M.A. Rubega. 2016. Poster: Is A Hothead Stressed? A pilot assessment of thermal imaging as a tool for indexing glucocorticoids. *SOCIETY OF INTEGRATIVE AND COMPARATIVE BIOLOGY* Annual Conference, Portland, OR.

Willig, M.R., **K.R. Burgio**, L.M. Cisneros, L.M. Dreiss, B.T. Klingbeil, B.D. Patterson, and S.J. Presley. 2014. Gradients of Phylogenetic Relatedness and Size Similarity: Bats and Rodents in a Hotspot of Tropical Biodiversity (Manu, Peru). *AMERICAN SOCIETY OF MAMMOLOGISTS* Annual Meeting, Oklahoma City, OK.

Carlson, C.J., **K.R. Burgio**, and K.E. Block. 2013. Reconstructing the extinction of the Carolina Parakeet: Historical data reveal that two distinct human activities drove two separate subspecies' declines. *ECOLOGICAL SOCIETY OF AMERICA* Annual Meeting, Minneapolis, MN.

Willig, M.R., **K.R. Burgio**, L.M. Cisneros, L.M. Dreiss, B.T. Klingbeil, B.D. Patterson, and S.J. Presley. 2013. Comparative Biodiversity of Bats and Rodents along an Extensive Tropical Elevational Gradient: Taxonomic, Functional, and Phylogenetic Dimensions. *AMERICAN SOCIETY OF MAMMOLOGISTS* Annual Meeting, Philadelphia, PA.

Lopez, B.E., **K.R. Burgio**, M.B. Carlucci, K.A. Palmquist, A. Parada, V. Weinberger, and A.H. Hurlbert. 2012. Inferring Community Assembly Processes under Niche Lability: Considering the Stress Dominance Hypothesis. *ECOLOGICAL SOCIETY OF AMERICA* Annual Meeting, Portland, OR.

Klingbeil, B.T., **K.R. Burgio**, L.M. Cisneros, K.E. Davis, L.M. Dreiss, B.D. Patterson, S.J. Presley, and M.R. Willig. 2012. Elevational variation of multiple dimensions of biodiversity: inter-taxon comparisons. *ECOLOGICAL SOCIETY OF AMERICA* Annual Meeting, Portland, OR.

## TEACHING EXPERIENCE

### **Instructor of Record**

2021	Science Writing – University of Connecticut
2017	Ornithology Laboratory – University of Connecticut

- 2016      Field Methods in Ornithology - University of Connecticut  
2015      Field Methods in Ornithology - University of Connecticut

### ***Teaching Assistant***

- 2016      Biology of the Vertebrates - University of Connecticut  
2015      Principles of Biology II - University of Connecticut  
2015      Ornithology Laboratory - University of Connecticut  
2015      Ornithology - University of Connecticut  
2014      Biology of the Vertebrates - University of Connecticut  
2010, 2011      Principles of Biology II - University of Connecticut

### ***Other Teaching Experience***

- 2021 - 2022      Graduate Advisor - Hunter College  
2012 - 2016      Undergraduate Independent Research Supervisor - Fairfield University  
2015      Guest Lectures (2), Ornithology Laboratory - University of Connecticut  
2015      Guest Lectures (2), Ornithology - University of Connecticut  
2010      Guest Lecture, Topics in Modern Biology - University of Connecticut

## **MENTORING**

### ***Graduate Students***

- 2021 -      Claire O'Connell - University of Cincinnati. *PhD Committee Member.*  
2021 - 2022      Clara Arndtsen '22 - Hunter College. *Primary Advisor.* Master's Thesis:  
Drivers of nest failure of Piping Plovers in New York City

### ***Undergraduates***

- 2023 -      Abigail Farrell '25 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America  
2022 -      Kimberly Cruz '25 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America.

- 2022 - Eliza Murley '23 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America.
- 2022 - 2023 Noah Jacques '23 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America.
- 2020 - 2021 Elizabeth Jurado '21 - University of Georgia. Independent research project: Cultivating a Sense of Belonging: The Impact of Undergraduate Research Experiences
- 2020 - 2021 Abigail Williams '21 - Salem College. Independent research project: The Impact of Road Salt on Drinking Water
- 2017 - 2021 Jordana Gravely '21 - University of Connecticut. Independent research project:  
Feather coat insulation of House Sparrows.  
- Recipient 2018 UConn SURF Grant (\$3500)  
- Authored 2 publications
- 2012 - 2015 Kali Block '15 - University of Connecticut. Independent research project: Testing Bergmann's, Groger's and Allen's Rule among Monk Parakeet populations  
- Recipient 2013 Sigma Xi GIAR (\$1000)  
- Co-authored 3 publications
- 2014 - 2016 Kerri McPhail '16 - Fairfield University. Research assistant: Testing the efficacy of infrared thermography in evaluating stress and metabolic heat loss in House Sparrows
- 2014 - 2016 Christian Cardillo '16 - Fairfield University. Research assistant: Testing the efficacy of infrared thermography in evaluating stress and metabolic heat loss in House Sparrows
- 2014 - 2016 Sabrae Boisvert '16 - Fairfield University. Research assistant: Testing the efficacy of infrared thermography in evaluating stress and metabolic heat loss in House Sparrows

2014 - 2016 Nicolette Tiernan '16 - Fairfield University. Research assistant: Testing the efficacy of infrared thermography in evaluating stress and metabolic heat loss in House Sparrows

2012 - 2013 Thomas Corona '13 - Fairfield University. Independent research project: Monk Parakeet utility pole nesting preferences

### **High School Students**

2013 - 2015 Nikki Pirtel '15, Manchester High School.

### **OTHER AWARDS**

2010	<b>University Scholar - University of Connecticut</b>
2010	Honors Scholar - University of Connecticut
2009	New England Scholar - University of Connecticut
2007 - 2008	Babbidge Scholar - University of Connecticut
2002	<b>Air Force Commendation Medal - United States Air Force</b>
2001	Distinguished Graduate - United States Air Force Leadership School
1999	Air Force Achievement Medal - United States Air Force
1997	Top Graduate - United States Air Force Technical Training School

### **PUBLIC OUTREACH**

2021	"The Two Extinctions of the Carolina Parakeet" - Chicago Ornithological Society
2021	"The Two Extinctions of the Carolina Parakeet" - NYC Audubon Society
2020	Skype-A-Scientist - 5 middle/elementary school virtual visits
2020	"Avian adaptations in a changing climate" Colebrook Consolidated School
2018	"Extinction in Two Acts: The Life and Death of the Carolina Parakeet" Linda Loring Foundation
2016	Consultant for National Geographic TV series "United States of Animals" Season 1, Episode 11: "The West Sting"
2016	"Nesting behavior of Monk Parakeets on Utility Poles" American Federation of Aviculture Annual Conference
2015	"The extinction of the Carolina Parakeet" New Haven Bird Club
2013	"The Carolina Parakeet: biology, extinction, and current research" The Parrot Club

- 2013 "Monk Parakeets" Western Connecticut Bird Club  
2013 "Carolina Parakeets" Windham High School, Windham, CT  
2012 "The Distribution of Monk Parakeets in Connecticut" CT Department of Energy and Environmental Protection Avian Summit  
2012 "Ecology: research, graduate school, and careers" Manchester High School, CT  
2012 "Adaptations of Birds" Franklin Elementary School, Franklin, CT  
2010 "Monk Parakeets in Connecticut: What Are They Doing Here?" New Haven Bird Club

### **RELATED TRAINING AND SKILLS**

Computer programs: R, ArcGIS, MaxEnt, RSTAN, Survey Monkey, Qualtrics, EstimateS, GEOLocate, Biota, and ResearchIR

Field training/experience: mist-netting and banding, survey techniques (point counts, territory mapping, and line transects), nest searching, behavioral observations, morphological measurements, blood sampling, vegetation sampling, Infrared Thermography (IRT), and automated recording units (ARUs)

Analyses: Bayesian Likert-scale analyses, species distribution modeling, extinction modeling, species biodiversity metrics, linear mixed models, Bayesian modeling, and quantifying functional and phylogenetic biodiversity

### **NON-ACADEMIC SERVICE**

- 2011 - 2015 Commissioner - Town of Hamden Natural Resource and Open Space Commission  
2008 Writing Tutor - University of Connecticut  
2000 - 2002 Head Instructor - Dental Assistant Training Program - American Red Cross  
1996 - 2002 Staff Sergeant - United States Air Force  
- Manager of Aerospace Dentistry & Combat Medic - duties include:  
dental assistant, radiology technician, and dental hygienist

### **REFERENCES**

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