

## KEVIN R. BURGIO, PHD

Postdoctoral Research Associate



Environment and  
Climate Change Canada

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### PROFESSIONAL EXPERIENCE

- 2020 - **Postdoctoral Research Associate**, Wildlife Research Division,  
Environment and Climate Change Canada
- 2020 - **Subject Editor**, Avian Conservation and Ecology
- 2019 - **Research Scientist**, Dept. of Ecology and Evolutionary Biology,  
University of Connecticut
- 2019 - 2020 **Undergraduate Program Leader and Research Specialist**, Education  
Dept., Cary Institute of Ecosystem Studies
- 2017 - 2019 **Postdoctoral Research Associate**, Dept. of Ecology and Evolutionary  
Biology, and the Center for Environmental Sciences and Engineering,  
University of Connecticut

### EDUCATION

- 2017 **Ph.D.** Ecology and Evolutionary Biology, University of Connecticut
- Dissertation topic: "Extinction, climate change, and the conservation of  
parrots: developing the models and tools needed to help save the  
world's most endangered order of birds"
- 2010 **B.A.** (*Summa cum laude*, Goldwater Scholar, University Scholar, Honors  
Scholar)
- Major: Ecology and Evolutionary Biology, University of Connecticut

## PUBLICATIONS

Citations: 417. h-index: 10. i10-index: 10. \* denotes an undergraduate mentee

### **Lead-authored - published & in review**

**Burgio, K.R.** *In press*. Night Parrot: Australia's Most Elusive Bird. *ORNITHOLOGICAL APPLICATIONS*.

**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. *OIKOS*. Preprint available: *BIORXIV* 842138. DOI: [10.1101/842138](https://doi.org/10.1101/842138)

**Burgio, K.R.**, K.E. Davis, L.M. Dreiss, B.T. Klingbeil, L.M. Cisneros, S.J. Presley, and M.R. Willig. *In review*. Multiple dimensions of global parrot diversity. *BIRD CONSERVATION INTERNATIONAL*. Preprint available: *BIORXIV* 812321. DOI: [10.1101/812321](https://doi.org/10.1101/812321)

**Burgio, K.R.**, C.J. Carlson, A.L. Bond, M.A. Rubega, and M.W. Tingley. *In review*. The two extinctions of the Carolina parakeet. *JOURNAL OF AVIAN BIOLOGY*. Preprint available: *BIORXIV* 801142. DOI: [10.1101/801142](https://doi.org/10.1101/801142)

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

**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)

**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](#)  
Altmetric Score: [317 \(top 5%\)](#)

**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)

**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](#)  
Altmetric Score: [52 \(top 5%\)](#)

**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](#)  
Altmetric Score: [195 \(top 5%\)](#)

**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](#)

### **Co-authored - published & in review**

Rubega, M.A., **K.R. Burgio**, R.S. Capers, A.A.M. MacDonald, A. Oeldorf-Hirsch, and R. Wyss. *In press*. Assessment by audiences shows little effect of science communication training. *SCIENCE COMMUNICATION*.

Gravelly, 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. 2017. 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)

Brightsmith, D., **K.R. Burgio**, B.J. Hiller, K.E. Block\*, P. Pyle, and M.A. Patten. 2017. 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)

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)

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)

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)

Altmetric Score: [26 \(top 5%\)](#)

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. [DOI: 10.1007/s10336-018-1590-8](https://doi.org/10.1007/s10336-018-1590-8)

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](#)  
Altmetric Score: [14 \(top 25%\)](#)

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](#)  
Altmetric Score: [147 \(top 5%\)](#)

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)

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](#). Altmetric Score: [450 \(top 5%\)](#)

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](#)

Altmetric Score: [50 \(top 5%\)](#)

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)

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)

### **Co-authored - 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. Mullerlein, 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.** 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 native 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](#)).

## 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: \$168,736

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

## TEACHING EXPERIENCE

### ***Instructor of Record***

- 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***

- 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

### ***Undergraduates***

- 2020 - Elizabeth Jurado '21 - University of Georgia. Independent research project: Cultivating a Sense of Belonging: The Impact of Undergraduate Research Experiences
- 2020 - Abigail Williams '21 - Salem College. Independent research project: The Impact of Road Salt on Drinking Water
- 2017 - Jordana Gravely '21 - University of Connecticut. Independent research project:
  - Feather coat insulation of House Sparrows.
  - Recipient 2018 UConn SURF Grant (\$3500)
  - Authored 1 publication

## K.R. Burgio - Curriculum Vitae

- 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.

## **PRESENTATIONS**

### ***Invited Seminars***

- 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.**, R.L. White, F. Montaña-Centellas, K.E. Davis, C. 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*.

Gravelly, 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.

## PUBLIC OUTREACH

- |      |  |
|------|--|
| 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  |

## K.R. Burgio - Curriculum Vitae

- 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

### OTHER AWARDS

- 2010 **University Scholar - University of Connecticut**
- 2010 Honors Scholar - University of Connecticut
- 2009 New England Scholar - University of Connecticut
- 2007 - 2008 Babbidge Scholar - University of Connecticut
- 2002 **Air Force Commendation Medal - United States Air Force**
- 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

### RELATED TRAINING AND SKILLS

Computer programs: R, ArcGIS, MaxEnt, RSTAN, 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: species distribution modeling, extinction modeling, species biodiversity metrics, linear mixed models, Bayesian modeling, and quantifying functional and phylogenetic biodiversity

## REVIEWER

*Proceedings of the Royal Society B, Global Ecology and Biogeography, Basic and Applied Ecology, Animal Conservation, Diversity*

## 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 - duties include: dental assistant, radiology technician, and dental hygienist
  - combat medic specializing in chemical, nuclear, and biological decontamination

## REFERENCES

Dr. Margaret A. Rubega, Professor  
Dept. of Ecology and Evolutionary Biology - University of Connecticut  
*margaret.rubega@uconn.edu*

Dr. Michael R. Willig, Professor  
Dept. of Ecology and Evolutionary Biology - University of Connecticut  
*michael.willig@uconn.edu*

Dr. Robert K. Colwell, Distinguished Professor Emeritus  
Dept. of Ecology and Evolutionary Biology - University of Connecticut  
*robertkcolwell@gmail.com*

Dr. Jacquelyn Gill, Associate Professor  
School of Biology and Ecology and Climate Change Institute - University of Maine  
*jacquelyn.gill@maine.edu*

Dr. Alexander Bond, Senior Curator in Charge of Birds  
Natural History Museum, London  
*a.bond@nhm.ac.uk*