

KEVIN R. BURGIO, PHD

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PROFESSIONAL EXPERIENCE

- 2024 - **Renewable Energy Biologist** - United States Fish and Wildlife Service
- 2022 - **NE CASC Postdoctoral Fellow** - University of Massachusetts
- 2022 - **Conservation Biologist** - Terwilliger Consulting Inc.
- 2022 - **Academic Editor** - PLOS ONE
- 2020 - **Subject Editor** - Avian Conservation and Ecology
- 2022 - 2024 **ORISE Postdoctoral Fellow** - United States Geological Survey
- 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: 1035. h-index: 15. i10-index: 18. * denotes student mentee

Hess, R.A., O.A. Erickson, R.B. Cole, J.M. Isaacs, S. Alvarez-Clare, J. Arnold, A. Augustus-Wallace, J.C. Ayooob, A. Berkowitz, J. Branchaw, **K.R. Burgio**, et al. 2023. Virtually the same? Evaluating the effectiveness of remote undergraduate research experiences. *LIFE SCIENCES EDUCATION*. 22(2): [DOI: 10.1187/cbe.22-01-0001](https://doi.org/10.1187/cbe.22-01-0001)

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. Ayooob, 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)
- 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. 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

Montaño-Centellas, F., C.B. van Rees, K.E. Block, R.L. White, M.A. Rubega, and **K.R. Burgio**. *In review*. Do Invaders Conform to Biogeographic "Rules"? Testing Allen's, Bergmann's, and Gloger's Rules in Monk Parakeets. *OECOLOGIA*. Preprint available: *AUTHOREA* [DOI: 10.22541/au.169929398.85254889/v1](https://doi.org/10.22541/au.169929398.85254889/v1)

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 revision*. Predicting Bird Distributions Under Climate Change. *ANIMAL BIODIVERSITY AND CONSERVATION*. Preprint available: *BIORXIV* [DOI: 10.1101/2021.05.26.445867](https://doi.org/10.1101/2021.05.26.445867)

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)

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

Active manuscripts in preparation (analyses completed and writing started)

Gravelly, J.*, **K.R. Burgio**, and M.A. Rubega. *In revision*. Seasonal Plumage Condition Variation and the Thermal Value of the Feather Coats of House Sparrows (*Passer domesticus*).

Burgio, K.R., Starking, M., K. Cruz*, A. Farrell*, E. Murley*, H. Higgins, A. Lubeck, C. Arndtsen*, T. Rice, K. Terwilliger, and M.D. Staudinger. Biological Responses and Vulnerability of the Northeastern Species of Greatest Conservation Need to Climate Change. To be submitted to *CLIMATIC CHANGE*.

Starking, M., **K.R. Burgio**, K. Cruz*, A. Farrell*, E. Murley*, H. Higgins, A. Lubeck, C. Arndtsen*, T. Rice, K. Terwilliger, and M.D. Staudinger. Biological Responses and Vulnerability of at-risk Vernal Pool Species to Climate Change. To be submitted to *CLIMATIC CHANGE*.

Smith-Vidaurre, G., A. Boloqui, F.A. Montaña-Centellas, C.B. van Rees, R.L. White, and **K.R. Burgio**. Observations of coprophagy by Monk Parakeets (*Myiopsitta monachus*) may shed light on their range expansion in both native and naturalized populations. To be submitted to *ECOLOGY*.

Lubeck, A., H. Higgins, K. Terwilliger, **K.R. Burgio**, L. Thurman, T. Rice, A. D'Amato, T. Morelli, P. Armsworth, and M.D. Staudinger. Vulnerability of Northeastern U.S. Species of Greatest Conservation Need to Climate Change. To be submitted to *CLIMATIC CHANGE*.

Snyderman, L.S.*, **K.R. Burgio**, A. Spiess, O.L. Olson, S. Turvey, and A.M. Mychajliw. Spatiotemporal Dynamics of Quaternary Range Collapse of the Great Auk (*Pinguinus impennis*): New Insights from the Gulf of Maine.

Burgio, K.R., K. Cruz, N. Jacques, E. Murley, H. Higgins, A. Lubeck, T. Melvin, T. Rice, K. Terwilliger, and M.D. Staudinger. A review of biological responses of northeastern U.S. diadromous fishes to climate change. To be submitted to *CLIMATIC CHANGE*.

Bond, A.L., **K.R. Burgio**, D. Watling, and A.L. Berryman. Specimens, sight records, and extinction probability of the Red-throated Lorikeet (*Vini amabilis*). To be submitted to *BIRD CONSERVATION INTERNATIONAL*.

Arndtsen, C.*, C. Braun, M. Starking, and **K.R. Burgio**. The Role of Year and Nest Location on the Reproductive Success of Piping Plovers Breeding on Rockaway Beach, New York.

GOVERNMENT REPORTS / WHITE PAPERS

Lubeck, A., H. Higgins, K. Terwilliger, **K.R. Burgio**, L. Thurman, T. Rice, A. D'Amato, T. Morelli, P. Armsworth, and M.D. Staudinger. 2024. Vulnerability of Northeastern U.S. Species of Greatest Conservation Need to Climate Change. *USGS REPORT*.

SCIENCE COMMUNICATION

Burgio, K.R. 2021. The Extinction of the Carolina Parakeet with Kevin Burgio. *Bird Emergency Podcast* ([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](#)); > 115,000 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: \$386,736

- 2022 - 2024 (\$162,000) **ORAU ORISE Fellowship**
- 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 Fellowship**
- 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

- 2023 Climate Change Response Framework, Albany, NH, USA
- 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 / Regional Conferences

Burgio, K.R., H. Higgins, A. Lubeck, M.D. Starking, K. Cruz*, A. Farrell*, E. Murley*, C. Arndtsen, T. Melvin, T. Rice, K. Terwilliger, and M.D. Staudinger. 2023. A Review of the Northeast Regional Species of Greatest Conservation Needs' Biological Responses and Vulnerability to Support the 2025 Revisions of the State Wildlife Action Plans. *THE WILDLIFE SOCIETY ANNUAL CONFERENCE*.

Burgio, K.R., K. Cruz*, A. Farrell*, E. Murley*, H. Higgins, A. Lubeck, T. Melvin, T. Rice, M. Starking, K. Terwilliger, and M.D. Staudinger. 2023. Biological Responses and Vulnerability of at-risk Vernal Pool Species to Climate Change. *THE WILDLIFE SOCIETY ANNUAL CONFERENCE*.

Snyderman, L.S.*, **K.R. Burgio**, A. Spiess, O.L. Olson, S. Turvey, and A.M. Mychajliw. 2023. Spatiotemporal Dynamics of Quaternary Range Collapse of the Great Auk (*Pinguinus impennis*): New Insights from the Gulf of Maine. *SOCIETY OF VERTEBRATE PALEONTOLOGY CONFERENCE*.

Burgio, K.R., M.D. Staudinger, H. Higgins, and A. Lubeck. 2023. A regional synthesis of climate data to inform the 2025 State Wildlife Action Plans in the Northeast U.S. *NORTHEAST FISH AND WILDLIFE DIVERSITY TECHNICAL COMMITTEE CONFERENCE*.

Staudinger, M.D., **K.R. Burgio**, H. Higgins, A. Lubeck, T. Melvin, T. Rice, and K. Terwilliger. 2023. A regional synthesis of climate change information and tools to support the 2025 revisions of the State Wildlife Action Plans. *NORTHEAST ASSOCIATION OF FISH AND WILDLIFE AGENCIES CONFERENCE*.

Burgio, K.R., K. Cruz*, A. Farrell*, E. Murley*, H. Higgins, A. Lubeck, T. Melvin, T. Rice, M. Starking, K. Terwilliger, and M.D. Staudinger. 2023. Biological Responses and Vulnerability of at-risk Vernal Pool Species to Climate Change. *NORTHEAST ASSOCIATION FISH AND WILDLIFE AGENCIES CONFERENCE*.

Staudinger, M.D., **K.R. Burgio**, H. Higgins, A. Lubeck, T. Melvin, T. Rice, and K. Terwilliger. 2023. Integrating Climate Change Vulnerability Assessments and Adaptation Strategies into US Fish and Wildlife Action Plans. *EFFECTS OF CLIMATE CHANGE ON THE WORLD'S OCEAN CONFERENCE*.

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*.

Staudinger, M.D., **K.R. Burgio**, H. Higgins, and A. Lubeck. 2022. A regional synthesis of climate data to inform the 2025 State Wildlife Action Plans in the Northeast U.S. *NORTHEAST FISH AND WILDLIFE DIVERSITY TECHNICAL COMMITTEE CONFERENCE*.

Burgio, K.R., R.L. White, F. Montaña-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*.

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, Tucson, 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 - Lucia Snyderman '24 - Middlebury College. *Thesis Committee Member.*
Independent research project: The Extinction of the Great Auk.

- 2023 - 2023 Abigail Farrell '23 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America
- 2022 - 2023 Kimberly Cruz '25 - University of Massachusetts, Amherst. Independent research project: Climate change adaptations of species of greatest conservation need in northeastern North America.
- 2022 - 2023 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 **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

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

REFERENCES

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

Dr. Michelle Staudinger, Associate Professor
School of Marine Sciences and Darling Marine Center - University of Maine
michelle.staudinger@maine.edu

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

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