

# CHRISTINA RIEHL

Associate Professor  
Department of Ecology and Evolutionary Biology  
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## EDUCATION

2011      Ph.D.      PRINCETON UNIVERSITY, Princeton, NJ  
*Department of Ecology and Evolutionary Biology*

2005      B. A.      HARVARD UNIVERSITY, Cambridge, MA  
*Magna cum laude with Highest Honors in Biology*

## PROFESSIONAL APPOINTMENTS

Associate Professor      Princeton University, Princeton, NJ  
(2022 – present)

Assistant Professor      Princeton University, Princeton, NJ  
(2015 – 2022)

Junior Fellow      Harvard Society of Fellows, Cambridge, MA  
(2012 – 2015)

Postdoctoral Research Fellow      Smithsonian Tropical Research Institute, Panama  
(2011 – 2012)

Lecturer      Princeton University, Princeton, NJ  
(2011 – 2012)

## GRANTS AND FELLOWSHIPS

2019      National Science Foundation (CAREER IOS-184543) “The evolution of female alternative tactics in a cooperatively breeding bird” (\$568,296)

2018      National Science Foundation (IOS – 1755279) “Mechanisms and adaptive consequences of collective decision-making in a communally nesting bird” (\$590,098)

2016      Princeton Environmental Institute – *Grand Challenges Grant* (\$70,000)

2015      National Geographic Society – *Committee for Research and Exploration* (\$19,200)

2014      Putnam Expedition Grant – *Harvard University* (\$6,120)

2012      Milton Fund Research Grant – *Harvard University* (\$35,082)  
Putnam Expedition Grant – *Harvard University* (\$5,000)  
3-Year Postdoctoral Fellowship – *Harvard Society of Fellows*

- 2011 1-Year Postdoctoral Fellowship – *Smithsonian Conservation Biology Institute* (declined)  
 1-Year Postdoctoral Fellowship – *Smithsonian Tropical Research Institute*
- 2008 Graduate Research Fellowship – *Princeton Latin American Studies*  
 Student Research Grant – *American Ornithologists' Union*  
 Frank M. Chapman Research Grant – *American Museum of Natural History*
- 2007 Short-term Fellowship – *Smithsonian Tropical Research Institute*  
 Graduate Research Fellowship – *Princeton Latin American Studies*
- 2006 Graduate Research Fellowship – *National Science Foundation*
- 2004 Harvard College Research Fellowship – *Harvard University*

## HONORS AND AWARDS

- 2020 Fellow – *American Ornithological Society*
- 2019 NSF CAREER Award – *National Science Foundation*
- 2018 Elective Member – *American Ornithological Society*
- 2017 Kavli Frontiers of Science Fellow – *National Academy of Sciences*
- 2013 Young Professional Award – *Cooper Ornithological Society*
- 2011 Excellence in Teaching Award – *Princeton University* (university-wide)
- 2004 Barry M. Goldwater Scholar – *Goldwater Excellence in Education*
- 2002-2003 Dean's List (Top 10% of Harvard University Class of 2005) – *Harvard University*

## PUBLICATIONS

asterisk\* denotes corresponding author for multi-author publications; underline denotes Riehl lab member; double underline denotes undergraduate lab member.

- 53.** Savagian, A. G.\*, and **Riehl, C.** 2022. Begging is an honest signal of need in a communally nesting bird with low genetic relatedness. *Behavioral Ecology and Sociobiology*, in revision.
- 52.** Savagian, A. G.\*, and **Riehl, C.** 2022. Effects of brood and group size on nestling provisioning and resource allocation in a communally nesting bird. *Behavioral Ecology*, in revision.
- 51.** Savagian, A. G.\*, and **Riehl, C.** 2022. Group chorusing as an intragroup signal in a communally breeding bird, the greater ani. *Ethology*, in revision.
- 50.** LaPergola, J. B.\*, **Riehl, C.**, Martínez-Gómez, J. E., Roldán-Clarà, B., and Curry, R. L. 2022. Extra-pair paternity correlates with genetic diversity, but not breeding density, in a Neotropical passerine, the Black Catbird. *Journal of Avian Biology*, accepted in press.

49. **Riehl, C.\***, and **Smart, Z. F.** 2022. Climate fluctuations influence variation in group size in a cooperative bird. *Current Biology* accepted, available online. <https://doi.org/10.1016/j.cub.2022.07.057>
48. **Smith, M. G.\***, and **Riehl, C.** 2022. Workload distribution and division of labor in cooperative societies. *Quarterly Review of Biology* 97(3): 183-210.
47. **LaPergola, J. B.\***, and **Riehl, C.** 2022. Opportunity isn't everything: genetic monogamy and limited brood parasitism in a colonial woodpecker. *Behavioral Ecology* 76(5): 1-10.
46. **Hauber, M. E.\***, **Riehl, C.**, and **Nagy, J.** 2021. Parental investment and the rejection of avian brood parasitic eggs: a comparative analysis. *Evolutionary Ecology* 36(2): 263-272.
45. **Barve, S.\***, **Riehl, C.**, **Walters, E.**, **Haydock, J.**, **Dugdale, H.**, and **Koenig, W. D.** 2021. Lifetime reproductive benefits of cooperative polygamy vary for males and females in the Acorn Woodpecker (*Melanerpes formicivorus*). *Proceedings of the Royal Society of London, Series B* 288 (1957): 20210579.
44. **Smart, Z. F.**, **Smith, M. G.**, and **Riehl, C.\***. 2021. The El Niño-Southern Oscillation dramatically influences the probability of reproduction and reproductive rate of a tropical forest bird. *Journal of Avian Biology* 52(8): <https://doi.org/10.1111/jav.02799>
43. **Riehl, C.** 2021. Evolutionary origins of cooperative and communal nesting: insights from the crotophagine cuckoos. *Ethology* 127(10): 827-836.
42. **Almstead, D. K.**, **Savagian, A.G.**, **Smith, M. G.**, and **Riehl, C.\***. 2021. Inter-group conflict in a cooperatively breeding bird: new insights into “home field advantage.” *Ethology* 127: 372-378.
41. **Ursino, C. A.**, **Strong, M. J.**, **Reboreda, J.C.**, and **Riehl, C.\***. 2020. Genetic patterns of repeat and multiple parasitism by screaming cowbirds, a specialist brood parasite. *Animal Behaviour* 167: 177-183.
40. **Elgar\*, M. E.**, and **Riehl, C.** 2020. Communication and recognition mechanisms in social animals. *Frontiers in Ecology and Evolution* 8: 510-513.
39. **Smith, M. G.**, and **Riehl, C.\***. 2020. Intermittent breeding is associated with breeding group turnover in a cooperatively breeding bird. *Oecologia* 192: 953-963.
38. **Riehl, C.** 2020. Do temperate and tropical birds have different mating systems? Pp. 115-123 in *Unsolved Problems in Ecology* (Tilman, G.D., Holt, R. D., Dobson, A., eds.). Princeton University Press, Princeton NJ.
37. **Baldassarre\*, D. T.**, **Campagna, L.**, **Thomassen, H. A.**, **Atwell, J. W.**, **Chu, M.**, **Crampton, L. H.**, **Fleischer, R. C.**, and **Riehl, C.** 2019. GPS tracking and population genomics suggest itinerant breeding across drastically different habitats in the Phainopepla. *The Auk* 136: 1-12 (Editor's Choice, Cover article.)

36. **Riehl, C.\***, and **Strong, M. J.** 2019. Social parasitism as an alternative reproductive tactic in a cooperatively breeding cuckoo. *Nature* 567: 96-99. **(Cover article.)**
35. **Riehl, C.** 2019. Cooperative and communal breeding. Pp. 41-59 in *Behavioral Ecology of Neotropical Birds* (Reboreda, J. C., Fiorini, V. D., and Tuero, D. T., eds.). Springer.
34. Feeney, W. E.\*, and **Riehl, C.\***. 2019. Monogamy without parental care? Social and genetic mating systems of avian brood parasites. *Philosophical Transactions of the Royal Society of London, Series B* 374: 20180201.
33. Dainson, M., Mark, M., Hossain, M., Yoo, B., Holford, M., McNeil, S., **Riehl, C.**, and Hauber, M. E.\* 2018. How to make a mimic: Brood parasitic Striped Cuckoo eggs match host shell color, but not pigmentation. *Journal of Chemical Ecology*, 44: 940-946. **(Cover article.)**
32. Pruitt, J.N.\*, Berdahl, A., **Riehl, C.**, Pinter-Wollman, N., Moeller, H.V., Pringle, E.G., Aplin, L.M., Robinson, E.J., Grilli, J., Yeh, P. and Savage, V.M. 2018. Social tipping points in animal societies. *Proceedings of the Royal Society of London, Series B*, 285: 20181282.
31. **Strong, M. J.**, Sherman, B. L., and **Riehl, C.\*** 2018. Home field advantage, not group size, predicts outcomes of inter-group competition in a social bird. *Animal Behaviour* 143: 205-213.
30. Hauber, M. E.\*, Dainson, M., **Baldassarre, D.**, Hossain, M., Holford, M., and **Riehl, C.** 2018. The perceptual and chemical basis of egg discrimination in communally breeding Greater Anis (*Crotophaga major*). *Journal of Avian Biology* 49: e01776. **(Cover article.)**
29. **Riehl, C.\***, and **Strong, M. J.** 2018. Stable social relationships between unrelated females increase individual fitness in a cooperative bird. *Proceedings of the Royal Society of London, Series B.*, 285: 20180130. **(Cover article.)**
28. **Riehl, C.** 2017. Reproductive Synchrony. In *Encyclopedia of Animal Cognition and Behavior*, Springer-Verlag. J. Vonk and T. Shackelford, eds.
27. Portugal, S. J., Bowen, J., and **Riehl, C.\*** 2017. A rare mineral, vaterite, acts as a shock absorber in the eggshell of a communally nesting birds. *The Ibis* 160:173-178.
26. **Riehl, C.** 2017. Kinship and incest avoidance drive patterns of reproductive skew in cooperatively breeding birds. *The American Naturalist* 190:774-785.
25. **Ursino, C. A.\***, De Mársico, M. C., Reboreda, J. C., and **Riehl, C.\*** 2017. Kinship and genetic mating system of the Baywing (*Agelaioides badius*), a cooperatively breeding Neotropical blackbird. *The Auk: Ornithological Advances* 134: 410-420.
24. **Porter, S. A.**, and **Riehl, C.\*** 2017. Diet of the Crested Guan (*Penelope purpurascens*) in Panama: leaf-eating by a tropical frugivore. *Wilson Journal of Ornithology* 121: 191-195.
23. **Riehl, C.** 2016. Infanticide and within-clutch competition select for reproductive synchrony in a cooperative bird. *Evolution* 70-8: 1760-1769.
22. Taborsky, M.\*, Frommen, J., and **Riehl, C.** 2016. The evolution of cooperation based on direct fitness benefits. *Philosophical Transactions of the Royal Society of London, Series B*, 371: 20140474.
21. Taborsky, M.\*, Frommen, J., and **Riehl, C.** 2016. Correlated payoffs are key to cooperation. *Philosophical Transactions of the Royal Society of London, Series B*, 371: 20150084.

20. **Riehl, C.\***, and Frederickson, M. E. 2016. Cheating and punishment in cooperative animal societies. *Philosophical Transactions of the Royal Society of London, Series B* 371: 20150090.
19. **Riehl, C.\***, and Stern, C. A.\* 2015. How cooperatively breeding birds find relatives and avoid incest: New insights into dispersal and kin recognition. *BioEssays* 37:1303-1308.
- Highlighted **Editor's Choice** in *BioEssays*
18. **Riehl, C.\***, and **Strong, M. J.** 2015. Social living without kin discrimination: experimental evidence from a cooperatively breeding bird. *Behavioral Ecology and Sociobiology* 69: 1293-1299.
17. **Riehl, C.\***, **Strong, M. J.**, and Edwards, S. V. 2015. Inferential reasoning and egg rejection in a cooperatively breeding cuckoo. *Animal Cognition* 18: 75-82.
16. **Riehl, C.** 2014. Cuckoos of the world. *Wilson Journal of Ornithology* 126: 411-412.
15. **Riehl, C.** 2013. Evolutionary routes to non-kin cooperative breeding in birds. *Proceedings of the Royal Society of London, Series B* 280: 20132245.
- A *Proceedings B* “**Most Viewed**” article during 2013
  - Highlighted **Editor's Choice** in *Proceedings B*
14. **Riehl, C.** 2013. The Harris's Hawk. *Journal of Raptor Research* 47: 333-334.
13. **Riehl, C.** 2012. Parental care and reproductive skew in a communally breeding cuckoo: hard-working males do not sire more young. *Animal Behaviour* 84: 707-714.
12. **Riehl, C.** 2011. Living with strangers: direct benefits favor non-kin cooperation in a communally breeding bird. *Proceedings of the Royal Society of London, Series B* 278:1728-1735
- A *Proceedings B* “**Most Viewed**” article during 2013
  - **Science Editor's Choice** (*Science* 330:1289)
  - Rated “Must Read” by **Faculty of 1000** (<http://f1000.com/13357090>)
  - **Covered in *Animal Behavior* 10<sup>th</sup> Ed.** (John Alcock, 2013)
11. **Riehl, C.** 2011. Paternal investment and the “sexually selected” hypothesis for the evolution of eggshell coloration: revisiting the assumptions. *The Auk* 128: 175-179.
10. **Riehl, C.** 2010. A simple rule reduces conspecific brood parasitism in a communally breeding bird. *Current Biology* 20 (20): 1830-1833.
- Rated “Must Read” by **Faculty of 1000** (<http://f1000.com/6381960>)
  - **Covered in *Evolutionary Analysis* 5th Ed.** (Freeman & Herron, 2013)
9. **Riehl, C.** 2010. Egg ejection risk and hatching asynchrony predict egg mass in a communally breeding cuckoo, the Greater Ani. *Behavioral Ecology* 21: 676-683.
8. **Riehl, C.\***, and S. M. Bogdanowicz. 2009. Isolation and characterization of microsatellite markers from the greater ani *Crotophaga major* (Aves: Cuculidae). *Molecular Ecology Resources* [Internet] Available from: <http://tomato.biol.trinity.edu/manuscripts/9-6/mer-09-0270.pdf>.

7. **Riehl, C.\***, and L. Jara. 2009. Natural history and reproductive biology of the communally breeding Greater Ani (*Crotophaga major*) in Gatún Lake, Panama. *The Wilson Journal of Ornithology* 121: 679-687.
6. **Riehl, C.\***, and G. S. Adelson. 2008. Seasonal insectivory by Black-headed Trogons, a tropical dry forest frugivore. *Journal of Field Ornithology* 79: 371-380.
5. **Riehl, C.** 2008. Communal calling and prospecting by Black-headed Trogons (*Trogon melanocephalus*). *The Wilson Journal of Ornithology* 120:248–255.
4. **Riehl, C.** 2007. Evidence for cooperative breeding by White-bellied Go-Away Birds (*Corythaixoides leucogaster*). *African Journal of Ecology* 46:421-423.
3. **Riehl, C.** 2006. Widespread cannibalism by fledglings in a colony of Black-crowned Night-Herons. *The Wilson Bulletin* 118: 101-104.
2. **Riehl, C.** 2002. Red-shouldered Hawk preys on Pied-billed Grebe. *Journal of Field Ornithology* 73: 410-411.
1. **Riehl, C.** 2001. Black-crowned Night-Heron fishes with bait. *Waterbirds* 24: 285-286.

## PEER REVIEW

### Associate Editor:

*Proceedings of the Royal Society of London, Series B* (2017-present)

*The American Naturalist* (2016-present)

*The Auk: Ornithological Advances* (2014-present)

### Assistant Chief Editor:

*Frontiers in Ecology and Evolution, Social Evolution* (2016-present)

**Reviewer:** American Naturalist; Animal Behaviour; Animal Cognition; Auk: Ornithological Advances; Behaviour; Behavioral Ecology; Behavioral Ecology and Sociobiology; Biology Letters; BMC Evolutionary Biology; Condor: Ornithological Applications; Current Biology; Ethology; Frontiers in Ecology and Evolution; Ibis; Journal of Avian Biology; Journal of Experimental Biology; Journal of Field Ornithology; Journal of Louisiana Ornithology; Journal of Zoology; Molecular Ecology; Nature; Nature Communications; Nature Ecology and Evolution; Nature Scientific Reports; Naturwissenschaften; Oecologia; Philosophical Transactions of the Royal Society of London, Series B; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society of London, Series B; Science; Science Advances; Waterbirds; Wilson Journal of Ornithology

## TEACHING EXPERIENCE

- 2015-present Lecturer, *Behavioral Ecology*, Dept. of Ecology and Evolutionary Biology, Princeton University
- 2018, 2021 Lecturer, *Animal Cognition* (Junior Tutorial), Dept. of Ecology and Evolutionary Biology, Princeton University
- 2015-2017 Lecturer, *Recent Research in Population Biology* (graduate seminar), Dept. of Ecology and Evolutionary Biology, Princeton University



- 2014-2017 Lecturer, *Evolutionary Ecology of Tropical Birds*, NSF Integrative Graduate Education and Research Traineeship (IGERT) Program, Panama.
- 2011 Lecturer, *Introduction to Population and Community Ecology*, Dept. of Ecology and Evolutionary Biology, Princeton University  
Lecturer, *Junior Tutorial*, Dept. of Ecology and Evolutionary Biology, Princeton University  
Laboratory Instructor, *Comparative Anatomy and Physiology*, Dept. of Ecology and Evolutionary Biology, Princeton University
- 2010 Teaching Assistant, *Evolutionary Biology*, Dept. of Ecology and Evolutionary Biology, Princeton University
- 2007-08 Writing Instructor, *The Writing Program*, Princeton University
- 2006 Teaching Assistant, *Behavioral Ecology*, Dept. of Ecology and Evolutionary Biology, Princeton University
- 2005 Laboratory Instructor, *The Biology of Organisms*, Dept. of Ecology and Evolutionary Biology, Princeton University

## STUDENTS AND INTERNS

- 2021 Charlotte Adamo (Undergraduate student, Princeton University)  
Emily Sharp (Undergraduate student, Princeton University)  
Willow Dalehite (Undergraduate student, Princeton University)
- 2020 Zemima Hossain (Undergraduate student, Princeton University)  
*Conducted senior thesis research on pink and gray river dolphins in Peru*
- 2019 Danielle Almstead (Undergraduate student, Princeton University)  
*Conducted senior thesis research on nest-site selection of greater anis*
- 2019 Dennis Duffin (Undergraduate student, Princeton University)  
*Conducted senior thesis research on invasive reef fish in Honduras*
- 2019 Devon Block-Funkhauser (Undergraduate student, Princeton University)  
*Conducted senior thesis research on Coquerel's sifakas in Madagascar*
- 2018 Elias Berbari (Undergraduate student, Princeton University)  
*Conducted senior thesis research on spider monkey foraging ecology in Mexico*
- 2018 Camden Olson (Undergraduate student, Princeton University)  
*Conducted senior thesis research on behavior of diabetic guide dogs*
- 2017 Ellie McNulty (Undergraduate student, Princeton University)  
*Conducted senior thesis research on conservation of Poplar Island*
- 2017 Emma Latham (Undergraduate student, Princeton University)  
*Conducted senior thesis research on sustainable farming in New Jersey*
- 2017 Mitchel Charles (Undergraduate student, Princeton University)  
*Conducted senior thesis research on timing of songbird migration*
- 2016 Vivien Bazarko (Undergraduate student, Princeton University)  
*Conducted senior thesis research on facultatively social halictid bees in Panama*
- 2016 Allison Conwell (Undergraduate student, Princeton University)  
*Conducted senior thesis research on parental care in Florida scrub-jays*
- 2016-19 Zach Smart (Undergraduate student, Princeton University)  
*Won Princeton Environmental Institute internship to assist in field work in Panama*
- 2016-19 Luke Carabbia (Undergraduate student, Princeton University)

- 2015 *Won Princeton Environmental Institute internship to assist in field work in Panama*  
Haley Gordon (Undergraduate student, Princeton University)
- 2015 *Conducted senior thesis research on food-caching behavior of agoutis in Panama*  
Sarah Porter (Undergraduate student, Princeton University)
- 2015 *Conducted senior thesis research on foraging behavior of Crested Guans in Panama*  
Amanda Savagian (Intern)
- 2015 *STRI Short-Term Fellow studying neighbor-stranger discrimination in Greater Anis*  
Chiti Arvind (Undergraduate student, Mount Carmel College, Bangalore, India)
- 2014-15 *Won Khorana Fellowship to assist in study of Greater Anis*  
Cynthia Ursino (Ph.D. student, University of Buenos Aires, Argentina)
- 2013-14 *Conducted genetic analyses on South American cowbirds and their hosts*  
Meghan Strong (Master's student, University of California Northridge)
- 2008-2010 *Conducted field experiments to determine whether cooperatively breeding female anis track their own eggs in a shared nest*  
Laura Jara Reyes (Undergraduate student, Universidad de los Andes, Colombia)  
*Assisted in field research on Greater Anis in Panama*



## CONFERENCE PRESENTATIONS

- 2021 – How flexible are behavioral alternatives? Evolution of Social Behavior Symposium, University of Bern, Switzerland (**Keynote address**)
- 2021 – Climate unpredictability maintains variation in group size in a cooperative bird. Animal Behavior Society (remote)
- 2021 – Climate affects reproductive rate in a tropical forest bird. Wilson Ornithological Society/Association of Field Ornithology (remote)
- 2019 – New model systems for the evolution of social behavior in birds. Wilson Ornithological Society/Association of Field Ornithology, Cape May, NJ (**Keynote address**)
- 2018 – Fitness consequences of social bonds in cooperatively breeding greater anis. American Ornithological Society, Tucson, AZ.
- 2018 – Mechanisms of communication and kin recognition in social evolution. Society for the Study of Evolution, Montpellier, France. (**Symposium co-organizer with Mark Elgar**)
- 2016 – Cheating in intraspecific cooperative interactions. Symposium funded by École Normale Supérieure, Paris, France (**Invited address**)
- 2016 – Fitness consequences of multilevel sociality. Presidential Symposium, Animal Behavior Society, Columbia, MO. (**Invited address**)
- 2016 – Evolutionary stability of cooperation and parasitism. International Society for Behavioral Ecology, Exeter, UK.
- 2016 – Why be a social parasite in a cooperative world? Winter Animal Behavior Conference, Steamboat Springs, CO
- 2014 – Infanticide promotes reproductive synchrony in a communally breeding bird. Animal Behavior Society, Princeton, NJ.
- 2014 – Why cooperate with unrelated individuals? International workshop funded by Conférence Universitaire de Suisse Occidentale, Arolla, Switzerland. (**Keynote address**)
- 2014 – Cooperation among non-kin: what prevents cheating? European Conference on Behavioural Biology, Prague, Czech Republic (**Symposium co-organizer with Michael Taborsky**)
- 2013 – Sneaky reproductive strategies in a “cooperative” bird. American Ornithologists’ Union and Cooper Ornithological Society, Chicago, IL. (**Young Professional Award**)
- 2013 – Cheaters and collaborators: the evolution of conspecific brood parasitism in a cooperatively breeding bird. Wilson Ornithological Society, Williamsburg, VA.
- 2012 – Paternal care and reproductive skew in a communally breeding cuckoo. Animal Behaviour Society, Albuquerque, NM.
- 2010 – Greater Anis can discriminate between predatory Yellow-headed Caracaras and similar, non-predatory Snail Kites. Association for the Study of Animal Behaviour, London, UK.
- 2010 – Cooperation and parasitism in a communally breeding bird, the Greater Ani. Animal Behaviour Society, Williamsburg, VA.
- 2010 – Alternative reproductive strategies: joint nesting and social monogamy. American Ornithologists’ Union and Cooper Ornithological Society. San Diego, CA.
- 2009 – Unusual variation in egg size in the Greater Ani, a communally breeding cuckoo with extreme reproductive competition. Wilson Ornithological Society and the Association of Field Ornithologists. Pittsburgh, PA.

## INVITED DEPARTMENTAL SEMINARS

- 2021 Georgetown University: Biology Department Seminar  
University of Wyoming: Biology Department Seminar (remote)  
University of Illinois at Urbana-Champaign: PEEC Seminar (remote)  
University of California at Santa Cruz: EEB Department Seminar (remote)
- 2020 Duke University: Long-term Research in Animal Behavior Seminar Series (remote)  
Yale University: Frontiers in Social Evolution Seminar Series (“FINE”; remote)  
University of Indiana: Biology Department Seminar
- 2018 Stony Brook, NY: Biology Department Seminar  
Drexel University, PA: Biology Department Seminar  
Villanova University, PA: Biology Department Seminar  
Utah State University, UT: Biology Department Seminar
- 2017 University of Arizona, AZ: Biology Department Seminar  
Rutgers University, NJ: Biology Department Seminar  
Cornell University, NY: Neurobiology and Behavior Department Seminar  
McGill University, Canada: Biology Department Seminar  
University of Connecticut: EEB Department Seminar
- 2016 Santa Fe Institute, NM: Seminar Series  
University of Pennsylvania, PA: Behavioral Ecology Seminar  
Duke University, NC: Biology Department Seminar (graduate student-invited)
- 2015 McMaster University, Canada: Biology Department Seminar  
Ferris State University, MI: Biology Department Seminar  
Arizona State University, AZ: Evolution of Social Complexity Seminar Series
- 2014 University of New Hampshire, NH: Biology Department Seminar  
Stonehill College, MA: Biology Department Seminar  
Dartmouth College, NH: Neukom Institute for Computational Science  
Princeton University, NJ: EEB Department Faculty Candidate Search  
University of Texas at Austin, TX: Department of Integrative Biology Seminar  
University of Pennsylvania, PA: Evolution Cluster Faculty Candidate Search
- 2013 University of Pennsylvania, PA: Behavioral Ecology Seminar  
Boston University, MA: Animal Behavior Seminar  
University of New Hampshire, NH: Behavioral Ecology Group Seminar
- 2012 Smithsonian Tropical Research Institute, Panama: Tupper Seminar  
Tulane University, LA: Department of Ecology and Evolutionary Biology Seminar
- 2010 Harvard University, MA: Program in Evolutionary Dynamics Seminar  
Lake Forest College, IL: Biology Department Seminar  
City University of New York, NY: Animal Behavior and Conservation Seminar