

DUSTIN REID RUBENSTEIN

Associate Professor

Columbia University • Department of Ecology, Evolution and Environmental Biology
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EDUCATION

Postdoc University of California, Berkeley, Integrative Biology & Museum of Vertebrate Zoology, 2006 – 2009
Ph.D. Cornell University, Neurobiology and Behavior, 2006
A.B. Dartmouth College, Biology & Environmental Studies & Earth Sciences (cum laude, high honors), 1999

POSITIONS

APPOINTMENTS

2018 – Founding Co-Director, sTEAM Fellows Program, Columbia University
2016 – Associate Professor (tenured), Department of Ecology, Evolution and Env Biology, Columbia University
2015 – Founding Director, Center for Integrative Animal Behavior, Columbia University
2014 – Founding Chair, The University Seminar in the Integrative Study of Animal Behavior, Columbia University
2012 – Founding Director, Program in Tropical Biology and Sustainability, Columbia University
2010 – Research Associate, Division of Vertebrate Zoology, American Museum of Natural History

AFFILIATIONS

2018 – Affiliate Member, Zuckerman Mind Brain Behavior Institute, Columbia University
2015 – Affiliated Faculty, Center for Integrative Animal Behavior, Columbia University
2014 – Affiliated Scientist, Kenya Wildlife Service
2011 – Faculty Mentor, Program in Neurobiology and Behavior, Columbia University
2001 – Affiliated Scientist, Ornithology Section, National Museums of Kenya
2001 – Affiliated Scientist, Mpala Research Centre

PAST

2015 – 2019 Affiliated Faculty, Initiative on Extreme Weather and Climate, Columbia University
2014 – 2016 Associate Professor (pre-tenure), Department of Ecology, Evolution and Env Biology, Columbia University
2010 – 2014 Co-Chair, The University Seminar in Population Biology, Columbia University
2009 – 2014 Assistant Professor, Department of Ecology, Evolution and Environmental Biology, Columbia University
2006 – 2014 Lab Associate, Fuller Evolutionary Biology Program, Cornell Lab of Ornithology
2006 – 2009 Miller Research Fellow, Integrative Biology & Museum Vert Zoology, University of California, Berkeley
2005 – 2010 Visiting Lecturer, Department of Ecology and Evolutionary Biology, Cornell University
2005 – 2006 Excellence Fellow, Cornell University
2003 – 2004 Smithsonian Institution Predoctoral Fellow, Smithsonian Tropical Research Institute
2000 – 2005 Howard Hughes Medical Institute Predoctoral Fellow, Cornell University
1999 – 2000 Reynolds Scholar, Dartmouth College

HONORS & AWARDS

2018 Society of Columbia Graduates' Great Teacher Award
2018 Fellow, American Ornithological Society
2018, 2017 Columbia University Nomination for Blavatnik Award
2017 Lenfest Distinguished Faculty Award, Columbia University
2016 National Academies Education Fellow in the Sciences
2013 Elective Member, American Ornithologists' Union
2012 Kavli Fellow, National Academy of Sciences
2011 Sackler Colloquium, Invited Speaker, National Academy of Sciences
2010 Outstanding New Investigator Award, Animal Behavior Society
2010 Ned K. Johnson Young Investigator Award, American Ornithologists' Union
2010 Faculty of 1000, Contributing Faculty Member
2010 Columbia University Nomination for Packard Fellowship for Science and Engineering
2010 Distinguished Graduates Hall of Fame, Hopewell Valley Central High School
2008 Young Investigators Symposium, American Ornithologists' Union
2007 Young Scientists Symposium, University of Michigan
2006 Young Investigator Award, Society for Behavioral Neuroendocrinology
2006 Society of Sigma Xi, Full Member, Cornell University

2004	Poster Award, Society for Behavioral Neuroendocrinology
2001	Presentation Award, Society for Conservation Biology
1999	First Prize, 8 th Annual Karen E. Wetterhahn Science Symposium, Dartmouth College
1999	Florence Fletcher Charles Botany Prize, Dartmouth College Department of Biological Sciences
1999	Society of Sigma Xi, Associate Member, Dartmouth College
1999	Second Honor Group, Dartmouth College
1998	Third Honor Group, Dartmouth College
1997	Citation of Academic Achievement, Dartmouth College Department of Earth Sciences
1994	Finalist, International Science and Engineering Fair
1994	Grand Prize, Mercer Science and Engineering Fair

FELLOWSHIPS & GRANTS

FELLOWSHIPS

2006 – 2009	Miller Research Fellowship, University of California, Berkeley
2006 – 2009	Council on Science and Technology Postdoctoral Fellowship, Princeton University (declined)
2003 – 2004	Smithsonian Institution Predoctoral Fellowship, Smithsonian Tropical Research Institute
2000 – 2005	Howard Hughes Medical Institute Predoctoral Fellowship in Biological Sciences
2000 – 2003	National Science Foundation Graduate Research Fellowship (declined)
2000 – 2001	College of Agriculture and Life Sciences Excellence Fellowship, Cornell University (deferred)
1999 – 2000	James B. Reynolds Scholarship for Study Abroad, Dartmouth College

GRANTS

2018 – 2019	Global Scholars Program, Columbia University
2018 – 2020	Provost's Large-Scale Teaching & Learning Grant, Columbia University (PI with D Kelley)
2017 – 2021	National Science Foundation, IOS Physiological and Structural Systems
2016 – 2017	National Science Foundation, IOS Behavioral Systems (Meeting) (PI with B Dantzer)
2016 – 2017	Columbia University Seminars
2015 – 2017	National Science Foundation, IOS Behavioral Systems (DDIG) (PI with S Guindre-Parker)
2014 – 2017	President's Global Innovation Fund, Columbia University
2014 – 2016	National Science Foundation, IOS Behavioral Systems (Workshop) (PI with H Hofmann)
2014 – 2015	National Geographic Society
2013 – 2017	National Science Foundation, IOS Behavioral Systems
2013	National Science Foundation, IOS Behavioral Systems (REU Supplement)
2012 – 2015	National Science Foundation, Extreme Science and Engineering Discovery Environment (XSEDE)
2011 – 2014	National Science Foundation, IOS Behavioral Systems
2011 – 2013	National Evolutionary Synthesis Center (NESCent) (PI with E Lacey, S Phelps, N Solomon)
2011 – 2012	National Evolutionary Synthesis Center (NESCent) (Co-PI with J Fewell, J Hunt)
2011	Earth Institute Research Assistantship, Columbia University Earth Institute
2010	Earth Institute Research Assistantship, Columbia University Earth Institute
2010	Earth Institute Course Field Work Support Grant, Columbia University Earth Institute
2010	Columbia University Seminars (PI with M. Levandowsky)
2008	Conference Travel Award, National Academy of Sciences
2008	Conference Travel Award, American Ornithologists' Union
2007	National Science Foundation Research Coordination Network Exchange Visit, E-BIRD
2006	Student Research Grant in Animal Behavior, Cornell University
2006	National Science Foundation Travel Award, North American Ornithological Congress
2006	Conference Travel Award, International Society for Behavioral Ecology (declined)
2006	Conference Transportation Grant, Cornell University Graduate School
2005 – 2008	National Science Foundation, Systematic Biology (senior personnel with I Lovette)
2005	Lerner-Gray Grant for Marine Research, American Museum of Natural History
2005	Sigma Xi Grant-in-Aid of Research
2005	Walter E. Benning Fund Scholarship, Cornell Lab of Ornithology
2005	Research Travel Grant, Cornell University Graduate School
2005	Cornell Sigma Xi Research Grant
2005	Student Research Grant in Animal Behavior, Cornell University
2005	Conference Travel Award, Society for Behavioral Neuroendocrinology
2005	Conference Transportation Grant, Cornell University Graduate School
2004 – 2005	National Science Foundation, Doctoral Dissertation Improvement Grant (Co-PI with S Emlen)
2004	Bentinck-Smith Fund, Cornell University (Co-PI with I Lovette)

2004	Animal Behavior Society Student Research Grant
2004	Cornell Sigma Xi Research Grant
2004	Walter E. Benning Fund Scholarship, Cornell Lab of Ornithology
2004	Paul A. Stewart Award, Wilson Ornithological Society
2004	Student Research Grant in Animal Behavior, Cornell University
2004	Frank M. Chapman Memorial Fund Grant, American Museum of Natural History
2004	Research Travel Grant, Cornell University Graduate School
2004	Conference Travel Award, International Society for Behavioral Ecology
2004	Conference Transportation Grant, Cornell University Graduate School
2003	Society for Integrative and Comparative Biology Grant-in-Aid of Research
2003	Cornell Sigma Xi Research Grant
2003	Walter E. Benning Fund Scholarship, Cornell Lab of Ornithology
2003	Andrew W. Mellon Foundation Student Research Grant, Cornell University
2003	Harvard Travellers Club Permanent Fund Grant
2003	Research Travel Grant, Cornell University Graduate School
2003	Student Conference Support, Society for Integrative and Comparative Biology
2003	Conference Transportation Grant, Cornell University Graduate School
2002	Cornell Sigma Xi Research Grant
2002	Walter E. Benning Fund Scholarship, Cornell Lab of Ornithology
2002	Frank M. Chapman Memorial Fund Grant, American Museum of Natural History
2002	Andrew W. Mellon Foundation Student Research Grant, Cornell University
2002	American Ornithologists' Union Research Award
2002	Research Travel Grant, Cornell University Graduate School
2002	American Ornithologists' Union Membership Grant
2002	Conference Transportation Grant, Cornell University Graduate School
2001	Cornell Sigma Xi Research Grant
2001	Mario Einaudi Center for International Studies Research Travel Grant, Cornell University
2001	Conference Transportation Grant, Cornell University Graduate School
2001	Student Travel Award, Society for Conservation Biology
1999	Harvard Travellers Club Permanent Fund Grant
1999	Explorers Club Youth Activity Fund Grant
1999	Class of 1939 Senior Scholars Program Grant, Dartmouth College
1998	Howard Hughes Research Internship, Dartmouth College
1998	Andrew W. Mellon Foundation Student Research Grant, Dartmouth College
1998	Richter Senior Honors Thesis Research Grant, Dartmouth College
1996	First-Year Summer Research Project Grant, Dartmouth College
1996	Summer Research Experience for Undergraduates (REU), American Museum of Natural History (declined)

PUBLICATIONS (#STUDENT/MENTEE)
SUBMITTED

94. Tsai, H-Y, **DR Rubenstein**, Y-M Fan, T-N Yuan, B-F Chen, Y Tang, I-C Chen and SF Shen. Locally-adapted phenology determines population vulnerability to climate change.
93. Firman, RC, **DR Rubenstein**, JM Moran, KC Rowe and BA Buzatto. Extreme and variable climatic conditions drive the evolution of sociality in Australian rodents.
92. Chen B-F, M Liu, **DR Rubenstein**, S-J Sun, J-N Liu, Y-H Lin and S-F Shen. A chemically-triggered transition from conflict to cooperation in burying beetles.
91. Liu M, S-J Sun, **DR Rubenstein**, B-F Chen and S-F Shen. Ecological transitions in grouping benefits explain the paradox of environmental quality and sociality.
90. Guindre-Parker S[#] and **DR Rubenstein**. Survival benefits of group living occur independently of fluctuating environmental conditions.

RESEARCH ARTICLES

89. Liu M, **DR Rubenstein**, S-A Cheong and S-F Shen. 2019. A continuum of biological adaptations to environmental fluctuation. *Proceedings of the Royal Society of London B*. Provisionally accepted.
88. Chak, STC[#] and **DR Rubenstein**. 2019. TERAD: Extraction of transposable element composition from RADseq data. *Molecular Ecology Resources*. In press.
87. Wu, S, C-M Chang, **DR Rubenstein**, C-M Yang, Y-T Huang, H-H Lin, L-C Shih, S-W Chen and S-F Shen. 2019. Artificial intelligence reveals environmental constraints on colour diversity in insects. *Nature Communications*. Provisionally accepted.

86. Siller, SJ[#] and **DR Rubenstein**. 2019. A tissue comparison of DNA methylation in the glucocorticoid receptor (*Nr3c1*) gene promoter in the European starling. *Integrative and Comparative Biology* 59:264-272.
85. **Rubenstein DR**, JA Ågren, L Carbone, NC Elde, HE Hoekstra, KM Kapheim, L Keller, CS Moreau, AL Toth, S Yeaman and HA Hofmann. 2019. Coevolution of genome architecture and social behavior. *Trends in Ecology and Evolution* 34:844-855.
84. Cheng, Y-R[#], **DR Rubenstein** and S-F Shen. 2019. Nest predation predicts infanticide in a cooperatively breeding bird. *Biology Letters* 15:20193014.
83. Chak STC[#] and **DR Rubenstein**. 2019. Social transitions in sponge-dwelling snapping shrimp. *Current Opinion in Insect Science* 34:33-39.
82. Lin, Y-H, S-F Chan, **DR Rubenstein**, M Liu and S-F Shen. 2019. Resolving the paradox of environmental quality and sociality: the ecological causes and consequences of cooperative breeding in two lineages of birds. *The American Naturalist* 194:207-216.
81. **Rubenstein, DR**. 2019. Animal society. In *Encyclopedia of Animal Cognition and Behavior* (Vonk, J and TK Schelford, eds.). Springer, New York, pp. 1-3.
80. Ellis, VA, EHR Sari, **DR Rubenstein**, RC Dickerson, S Bensch and RE Ricklefs. 2019. The global biogeography of avian haemosporidian parasites is characterized by local diversification and intercontinental dispersal. *Parasitology* 146:213-219.
79. Shen, S-F and **DR Rubenstein**. 2019. Environmental uncertainty and social behavior. In *Encyclopedia of Animal Behavior, 2nd Edition* (Choe, J, ed.). Elsevier, New York, Volume 4, pp. 807-815.
78. Guindre-Parker, S[#] and **DR Rubenstein**. 2018. No short-term physiological costs of offspring care in a cooperatively breeding bird. *Journal of Experimental Biology* 221:jeb186569.
77. Guindre-Parker, S[#] and **DR Rubenstein**. 2018. The oxidative costs of parental care in cooperative and pair-breeding African starlings. *Oecologia* 188:53-63.
76. Liu, M, **DR Rubenstein**, S-A Cheong and S-F Shen. 2018. Multitasking and the evolution of optimal clutch size in fluctuating environments. *Ecology and Evolution* 8:8803-8817.
75. Guindre-Parker S[#] and **DR Rubenstein**. 2018. Multiple fitness benefits of alloparental care in a fluctuating environment. *Royal Society Open Science* 5:172406.
74. Pikus AE[#], S Guindre-Parker[#] and **DR Rubenstein**. 2018. Testosterone, social status and parental care in a cooperatively breeding bird. *Hormones and Behavior* 97:85-93.
73. Gaynor KM[#], JW Solomon, JE Duffy, L Jessell[#], S Siller[#] and **DR Rubenstein**. 2017. Development of genome- and transcriptome-derived microsatellites in related species of snapping shrimps with highly duplicated genomes. *Molecular Ecology Resources* 17:e160-e173.
72. Brooks KC[#], R Maia[#], JE Duffy, KM Hultgren and **DR Rubenstein**. 2017. Ecological generalism facilitates the evolution of sociality in snapping shrimps. *Ecology Letters* 20:1516-1525.
71. Dantzer B and **DR Rubenstein**. 2017. Introduction to symposium: the developmental and proximate mechanisms causing individual variation in cooperative behavior. *Integrative and Comparative Biology* 57:560-565.
70. S-F Shen ST Emlen, WD Koenig and **DR Rubenstein**. 2017. The ecology of cooperative breeding behaviour. *Ecology Letters* 20:708-720.
69. Chak STC[#], JE Duffy, KM Hultgren and **DR Rubenstein**. 2017. Evolutionary transitions towards eusociality in snapping shrimps. *Nature Ecology & Evolution* 1:0096.
68. Cornwallis CK, CA Botero, **DR Rubenstein**, PA Downing, SA West and AS Griffin. 2017. Cooperation facilitates the colonization of harsh environments. *Nature Ecology & Evolution* 1:0057.
67. **Rubenstein DR** and P Abbot. 2017. The evolution of social evolution. In *Comparative Social Evolution* (Rubenstein DR and P Abbot, eds.). Cambridge University Press, Cambridge, pp. 1-18.
66. Hultgren KM, JE Duffy and **DR Rubenstein**. 2017. Sociality in snapping shrimps. In *Comparative Social Evolution* (Rubenstein DR and P Abbot, eds.). Cambridge University Press, Cambridge, 224-249.
65. **Rubenstein DR** and P Abbot. 2017. Social synthesis: opportunities for comparative social evolution. In *Comparative Social Evolution* (Rubenstein DR and P Abbot, eds.). Cambridge University Press, Cambridge, 427-452.
64. Hofmeister NR[#] and **DR Rubenstein**. 2016. Environmental variability and the evolution of the glucocorticoid receptor (*Nr3c1*) in African starlings. *Ecology Letters* 19:1219-1227.
63. Hofmann HA, SCP Renn and **DR Rubenstein**. 2016. Introduction to symposium: new frontiers in the integrative study of animal behavior: nothing in neuroscience makes sense except in the light of behavior. *Integrative and Comparative Biology* 56:1192-1196.
62. Rubalcaba JG[#], V Polo, R Maia[#], **DR Rubenstein** and JP Veiga. 2016. Sexual and natural selection in the evolution of extended phenotypes: the use of green nesting material in starlings. *Journal of Evolutionary Biology* 29:1585-1592.
61. Jeffery NW, KM Hultgren, TCS Chak[#], TR Gregory and **DR Rubenstein**. 2016. Patterns of genome size variation in snapping shrimp. *Genome* 59:393-402.
60. Maia R[#], **DR Rubenstein** and MD Shawkey. 2016. Selection, constraint and the evolution of coloration in African starlings. *Evolution* 70:1064-1079.

59. **Rubenstein DR**, CA Botero and EA Lacey. 2016. Discrete but variable structure of animal societies leads to the false perception of a social continuum. *Royal Society Open Science* 3:160147.
58. Keen SC[#], CD Meliza, JA Piloswky[#] and **DR Rubenstein**. 2016. Song in a social and sexual context: vocalizations signal identity and rank in both sexes of a cooperative breeder. *Frontiers in Ecology and Evolution* 4:46.
57. **Rubenstein DR**, HE Skolnik[#], A Berrio, F Champagne, S Phelps and J Solomon. 2016. Sex-specific fitness effects of unpredictable early life conditions are associated with DNA methylation in the avian glucocorticoid receptor. *Molecular Ecology* 25:1714-1728.
56. **Rubenstein DR**. 2016. Superb starlings: cooperation and conflict in an unpredictable environment. In *Cooperative Breeding in Vertebrates: Studies of Ecology, Evolution, and Behavior* (Koenig WD and JL Dickinson, eds.). Cambridge University Press, Cambridge, pp. 181-196.
55. **Rubenstein DR** and HA Hofmann. 2015. Proximate pathways underlying social behavior. *Current Opinion in Behavioral Sciences* 6:154-159.
54. Chak TCS[#], **DR Rubenstein** and JE Duffy. 2015. Social control of reproduction and breeding monopolization in the eusocial snapping shrimp *Synalpheus elizabethae*. *The American Naturalist* 186:660-668.
53. Pollack LJ[#] and **DR Rubenstein**. 2015. The fitness consequences of kin-biased dispersal in a cooperatively breeding bird. *Biology Letters* 11:20150336.
52. Chak TCS[#], JE Duffy and **DR Rubenstein**. 2015. Reproductive skew drives patterns of sexual dimorphism in sponge-dwelling snapping shrimps. *Proceedings of the Royal Society of London B* 282:20150342.
51. Apakupakul K[#] and **DR Rubenstein**. 2015. Bateman's principle is reversed in a cooperatively breeding bird. *Biology Letters* 11:20150034.
50. Taborsky M, HA Hofmann, AK Beery, DT Blumstein, LD Hayes, EA Lacey, EP Martins, SM Phelps, NG Solomon and **DR Rubenstein**. 2015. Taxon matters: promoting integrative studies of social behavior. *Trends in Neuroscience* 38:189-191.
49. Weinman LR[#], J Solomon and **DR Rubenstein**. 2015. A comparison of single nucleotide polymorphism and microsatellite markers for analysis of parentage and kinship in a cooperatively breeding bird. *Molecular Ecology Resources* 15:502-511.
48. Botero CA, FJ Weissing, J Wright and **DR Rubenstein**. 2015. Evolutionary tipping points in the capacity to adapt to environmental change. *Proceedings of the National Academy of Sciences USA* 112:184-189.
47. **Rubenstein DR** and HA Hofmann. 2015. The integrative study of animal behavior. *Current Opinion in Behavioral Sciences* 6:v-viii.
46. Hofmann HA, AK Beery, DT Blumstein, ID Couzin, RL Earley, LD Hayes, PL Hurd, EA Lacey, SM Phelps, NG Solomon, M Taborsky, LJ Young and **DR Rubenstein**. 2014. An evolutionary framework for studying mechanisms of social behavior. *Trends in Ecology and Evolution* 29:581-589.
45. Sun S-J, **DR Rubenstein**, J-N Liu, M Liu, B-F Chen, S-F Chan, W Hwang, P-S Yang and S-F Shen. 2014. Climate-mediated cooperation promotes niche expansion in burying beetles. *eLife* 3:e02440.
44. Shen S-F, E Akçay and **DR Rubenstein**. 2014. Group size and social conflict in complex societies. *The American Naturalist* 183:301-310.
43. Keen SC[#], CD Meliza and **DR Rubenstein**. 2013. Flight calls signal group and individual identity but not kinship in a cooperatively breeding bird. *Behavioral Ecology* 24:1279-1285.
42. Meliza CD, SC Keen[#] and **DR Rubenstein**. 2013. Pitch- and spectral-based dynamic time warping methods for comparing field recordings of harmonic avian vocalizations. *Journal of the Acoustical Society of America* 134:1407-1415.
41. Seddon N, CA Botero, JA Tobias, PO Dunn, H MacGregor, **DR Rubenstein**, A Uy, JT Weir, LA Whittingham and RJ Safran. 2013. Sexual selection accelerates signal evolution during speciation in birds. *Proceedings of the Royal Society of London B* 280:20131065.
40. Maia R[#], **DR Rubenstein** and MD Shawkey. 2013. Key ornamental innovations facilitate diversification in an avian radiation. *Proceedings of the National Academy of Sciences USA* 110:10687-10692.
39. Mark MM[#] and **DR Rubenstein**. 2013. Physiological costs and carry-over effects of avian interspecific brood parasitism influence reproductive tradeoffs. *Hormones and Behavior* 63:717-722.
38. Pilowsky JA[#] and **DR Rubenstein**. 2013. Social context and the lack of sexual dimorphism in song in an avian cooperative breeder. *Animal Behaviour* 85:709-714.
37. Rubenstein DI and **DR Rubenstein**. 2013. Social behavior. In *Encyclopedia of Biodiversity, 2nd Edition* (Levin, SA, ed.). Elsevier, Volume 6, pp. 571-579.
36. Duffy JE, KS Macdonald, KM Hultgren, TCS Chak[#] and **DR Rubenstein**. 2013. Decline and extinction of Caribbean eusocial shrimp. *PLOS ONE* 8:e54637.
35. Creel S, B Danzter, W Goymann and **DR Rubenstein**. 2013. The ecology of stress: effects of the social environment. *Functional Ecology* 27:66-80.
34. **Rubenstein DR**. 2012. Family feuds: social competition and sexual conflict in complex societies. *Philosophical Transactions of the Royal Society B* 367:2304-2313.

33. Rubenstein DR. 2012. Sexual and social competition: broadening perspectives by defining female roles. *Philosophical Transactions of the Royal Society B* 367:2248-2252.
32. Lovette IJ, BS Arbogast, RL Curry, RM Zink, CA Botero, JP Sullivan, AL Talba, RB Harris, DR Rubenstein, RE Ricklefs and E Bermingham. 2012. Phylogenetic relationships of the mockingbirds and thrashers (Aves: Mimidae). *Molecular Phylogenetics and Evolution* 63:219-229.
31. Botero CA and DR Rubenstein. 2012. Fluctuating environments, sexual selection and the evolution of flexible mate choice in birds. *PLOS ONE* 7:e32311.
30. Rubenstein DR. 2011. Spatiotemporal environmental variation, risk aversion and the evolution of cooperative breeding as a bet-hedging strategy. *Proceedings of the National Academy of Sciences USA* 108:10816-10822.
29. Jetz W* and DR Rubenstein*. 2011. Environmental uncertainty and the global biogeography of cooperative breeding in birds. *Current Biology* 21:72-78. *contributed equally
28. Rubenstein DR and JA Kealey#. 2010. Cooperation, conflict, and the evolution of complex animal societies. *Nature Education Knowledge* 1:47.
27. Blumstein DT, LA Ebensperger, LD Hayes, RA Vásquez, TH Ahern, JR Burger, AG Dolezal, A Dosmann, G González-Mariscal, BN Harris, EA Herrera, EA Lacey, J Mateo, L McGraw, D Olazabal, M Ramenofsky, DR Rubenstein, SA Sakhai, W Saltzman, C Sainz-Borgo, M Soto-Gamboa, ML Stewart, TW Wey, JC Wingfield and LJ Young. 2010. Towards an integrative understanding of social behavior: new models and new opportunities. *Frontiers in Neuroscience* 4:1-9.
26. Rubenstein DR and IJ Lovette. 2009. Reproductive skew and selection on female ornamentation in social species. *Nature* 462:786-789.
25. Rubenstein DR and S-F Shen. 2009. Reproductive conflict and the costs of social status in cooperatively breeding vertebrates. *The American Naturalist* 173:650-661.
24. Rubenstein DR and ME Hauber. 2008. Dynamic feedback between phenotype and physiology in sexually selected traits. *Trends in Ecology and Evolution* 23:655-658.
23. Rubenstein DR, AF Parlow, CR Hutch and LB Martin. 2008. Environmental and hormonal correlates of immune activity in a cooperatively breeding tropical bird. *General and Comparative Endocrinology* 159:10-15.
22. Vitousek MN, DR Rubenstein, K Nelson and M Wikelski. 2008. Are hotshots always hot? A longitudinal study of hormones, behavior, and reproductive success in male marine iguanas. *General and Comparative Endocrinology* 157:227-232.
21. Lovette IJ, BV McCleery#, AL Talba and DR Rubenstein. 2008. A complete species-level molecular phylogeny for the “Eurasian” starlings (Sturnidae: *Sturnus*, *Acridotheres*, and allies): recent diversification in a highly social and dispersive avian group. *Molecular Phylogenetics and Evolution* 47:251-260.
20. Rubenstein DR, BV McCleery# and JE Duffy. 2008. Microsatellite development suggests evidence of polyploidy in the social sponge-dwelling snapping shrimp *Zuzalpheus brooksi*. *Molecular Ecology Resources* 8:890-894.
19. Martin LB and DR Rubenstein. 2008. Stress hormones in tropical birds: patterns and future directions. *Ornitologia Neotropical* 19 (Suppl.):207-218.
18. Rubenstein DR and IJ Lovette. 2007. Temporal environmental variability drives the evolution of cooperative breeding in birds. *Current Biology* 17:1414-1419.
17. Rubenstein DR. 2007. Territory quality drives intraspecific patterns in extrapair paternity. *Behavioral Ecology* 18:1058-1064.
16. Rubenstein DR. 2007. Female extrapair mate choice in a cooperative breeder: trading sex for help and increasing offspring heterozygosity. *Proceedings of the Royal Society of London B* 274:1895-1903.
15. Rubenstein DR. 2007. Temporal but not spatial environmental variation drives adaptive offspring sex allocation in a plural cooperative breeder. *The American Naturalist* 170:155-165.
14. Lovette IJ and DR Rubenstein. 2007. A comprehensive molecular phylogeny of the starlings (Aves: Sturnidae) and mockingbirds (Aves: Mimidae): congruent mtDNA and nuclear trees for a cosmopolitan avian radiation. *Molecular Phylogenetics and Evolution* 44:1031-1056.
13. Sachs JL and DR Rubenstein. 2007. The evolution of cooperative breeding; is there cheating? *Behavioural Processes* 76:131-137.
12. Rubenstein DR. 2007. Stress hormones and sociality: integrating social and environmental stressors. *Proceedings of the Royal Society of London B* 274:967-975.
11. Vitousek MN, DR Rubenstein and M Wikelski. 2007. The evolution of foraging behavior in the Galápagos marine iguana: natural and sexual selection on body size drives ecological, morphological, and behavioral specialization. In *Foraging Behavior in Lizards* (Reilly SM, DB Miles and LD McBrayer, eds.). Cambridge University Press, Cambridge, pp. 491-507.
10. Rubenstein DR, DI Rubenstein, PW Sherman and TA Gavin. 2006. Pleistocene park: does re-wilding North America represent sound conservation for the 21st century? *Biological Conservation* 132:232-238.
9. Lovette IJ, DR Rubenstein and WN Watetu#. 2006. Provisioning of fledgling conspecifics by males of the brood-parasitic cuckoos *Chrysococcyx klaas* and *C. caprius*. *The Wilson Journal of Ornithology* 118:99-101.

8. **Rubenstein DR** 2005. Isolation and characterization of polymorphic microsatellite loci in the plural cooperatively breeding superb starling, *Lamprolornis superbus*. *Molecular Ecology Notes* 5:739-744.
7. **Rubenstein DR** and M Wikelski. 2005. Steroid hormones and aggression in female Galápagos marine iguanas. *Hormones and Behavior* 48:329-341.
6. McRae SB, ST Emlen, **DR Rubenstein** and SM Bogdanowicz. 2005. Polymorphic microsatellite loci in a plural breeder, the grey-capped social weaver (*Pseudonigrita arnaudi*), isolated with an improved enrichment protocol using fragment size-selection. *Molecular Ecology Notes* 5:16-20.
5. Royle JA and **DR Rubenstein**. 2004. The role of species abundance in determining breeding origins of migratory birds with stable isotopes. *Ecological Applications* 14:1780-1788.
4. **Rubenstein DR** and KA Hobson. 2004. From birds to butterflies: animal movement patterns and stable isotopes. *Trends in Ecology and Evolution* 19:256-263.
3. **Rubenstein DR** and M Wikelski. 2003. Seasonal changes in food quality: a proximate cue for reproductive timing in marine iguanas. *Ecology* 84:3013-3023.
2. **Rubenstein DR**, CP Chamberlain, RT Holmes, MP Ayres, JR Waldbauer, GR Graves and NC Tuross. 2002. Linking breeding and wintering ranges of a migratory songbird using stable isotopes. *Science* 295:1062-1065.
1. Rittschof D, J Sarrica, and **DR Rubenstein**. 1995. Shell dynamics and microhabitat selection by striped legged hermit crabs, *Clibanarius vittatus* (Bosc). *Journal of Experimental Marine Biology and Ecology* 192:157-172.

OTHER ARTICLES

14. **Rubenstein DR** and DI Rubenstein. 2016. From Pleistocene to trophic rewilding: a wolf in sheep's clothing. *Proceedings of the National Academy of Sciences USA* 113:E1.
13. **Rubenstein DR**, H Hofmann, E Akçay, S Alonzo, E Archie, A Beery, R Calisi-Rodríguez, K Carleton, B Chow, J Dubnau, C Grozinger, E Ketterson, A Leifer, T Linksvayer, M MacManes, L Martin, K McGraw, L McGraw, T Mendelson, L O'Connell, A Ophir, L Ramage-Healey, S Renn, T Roth, J Tung and S Woolley. 2014. New frontiers for the integrative study of animal behavior. *National Science Foundation White Paper*.
12. **Rubenstein DR**. 2012. The Flexible Phenotype: A Body-Centered Integration of Ecology, Physiology, and Behaviour (Book Review). *The Quarterly Review of Biology* 87:264.
11. **Rubenstein DR** and JE Duffy. 2012. Scientists at work: notes from the field in Belize. *The New York Times* July 18-27, 2012.
10. **Rubenstein DR**. 2011. From the big city to the bush. *Mpala Memos* July:7.
9. **Rubenstein DR**. 2010. Evolutionary Behavioral Ecology (Book Review). *The Quarterly Review of Biology* 85:504.
8. **Rubenstein DR**. 2010. Scientists at work: notes from the field in Kenya. *The New York Times* July 13-28, 2010.
7. **Rubenstein DR**. 2009. The secret lives of starlings. *Natural History* 118:28-33.
6. **Rubenstein DR**. 2009. Why I do science: the freedom to explore. *SEED* 21:34.
5. **Rubenstein DR**, PW Sherman, DI Rubenstein, and TM Caro. 2007. Rewilding rebuttal. *Scientific American* October:12.
4. **Rubenstein DR**. 2006. Searching for starlings. *Travel News* April:58.
3. **Rubenstein DR**. 2006. Chasing starlings, chased by a lion. *Living Bird* 26:26-32.
2. **Rubenstein DR**. 2005. The uncommon lifestyle of the superb starling. *BirdScope* 19:20.
1. **Rubenstein DR**. 2001. The places you can go. *Dartmouth Alumni Magazine* May/June:24-25.

BOOKS

2. **Rubenstein DR** and J Alcock. 2018. *Animal Behavior, 11th Edition*. Oxford University Press, New York.
1. **Rubenstein DR** and P Abbot. 2017. *Comparative Social Evolution*. Cambridge University Press, Cambridge.

EDITED VOLUMES

2. **Rubenstein DR** and HA Hofmann. 2015. New frontiers for the integrative study of animal behavior. *Current Opinion in Behavioral Sciences* 6:1-182.
1. **Rubenstein DR**, RO Prum and M Levandowsky. 2012. Sexual selection, social conflict and the female perspective. *Philosophical Transactions of the Royal Society B* 367:2248-2375.

TEACHING EXPERIENCE**INSTRUCTOR**

- 2019 – Scientific Analysis and Presentation, Columbia University
 2019 Adaptation to Changing Climates, Taiwan National University
 2019 Principles of Animal Behavior, Columbia University
 2017 Animal Behavior Training Course, Institute of Zoology, Chinese Academy of Sciences
 2015 – (7x) Frontiers of Science (Core Curriculum), Columbia University
 2014 Social Evolution and Behavior, Rockefeller University
 2013 – (5x) Biology of African Animals and Ecosystems (Kenya Study Abroad Program), Columbia University
 2012 Comparative Social Evolution, Columbia University (with Arizona State, UC Berkeley, Vanderbilt)
 2011 Tropical Biology (Kenya Field Course), Columbia University
 2010 – 2014 (3x) Thesis Development, Columbia University
 2010 – 2013 (3x) Behavioral Ecology, Columbia University
 2010 – 2011 (2x) Student Research Seminar, Columbia University
 2009 – 2018 (8x) Environmental Biology I, Columbia University
 2007 Animal Behavior, University of California, Berkeley
 2005 – 2010 (6x) Tropical Field Ecology and Behavior (Kenya Field Course), Cornell University

ASSISTANT

- 2004 Head graduate teaching assistant, Introduction to Behavior, Cornell University
 2003 Graduate teaching assistant, Introduction to Behavior, Cornell University
 1998 Undergraduate teaching assistant, Animal Behavior, Dartmouth College
 1996 – 1997 (2x) Undergraduate teaching assistant, Ecology and Evolution, Dartmouth College

PRESENTATIONS**INVITED SEMINARS**

- 2019 – Federated Department of Biology, Rutgers University - Newark / New Jersey Institute of Technology
 2019 Department of Biological Sciences, Columbia University
 2018 Program in Ecology, Evolution and Conservation, University of Illinois, Urbana
 2018 Institute of Ecology and Evolution, University of Bern
 2018 Richard Gilder Graduate School, American Museum of Natural History
 2017 Department of Collective Behaviour, University of Konstanz
 2017 Division of Integrative Biology, University of South Florida
 2017 Biodiversity Research Center, Academia Sinica, Taiwan
 2017 Department of Biology, University of Kentucky
 2017 Department of Ecology and Evolutionary Biology, University of Michigan (Storer Lecture)
 2017 Department of Psychology, Cornell University
 2017 Distinguished Speakers in Behavioral and Brain Sciences, Cornell University
 2016 Centre for Ecology and Conservation, University of Exeter, Penryn
 2016 Department of Biological Sciences, Dartmouth College
 2015 University Seminar in the Integrative Study of Animal Behavior, Columbia University
 2015 Department of Anthropology, Rutgers University
 2015 Brain, Behavior and Evolution Group, University of Texas at Austin
 2015 Department of Integrative Biology, University of Texas at Austin
 2015 Behavioral Ecology Group, Department of Anthropology, Stony Brook University
 2015 Ecology, Evolution, and Environmental Science Faculty, School of Life Sciences, Arizona State University
 2015 Department of Biology, Brooklyn College
 2015 Department of Biology, University of Miami
 2014 Biology Department, University of Massachusetts Amherst
 2014 Department of Biological Sciences, Vanderbilt University
 2014 Centre for Ecology and Conservation, University of Exeter, Penryn
 2014 Department of Molecular, Cellular and Biomedical Sciences, University of New Hampshire
 2014 Department of Ecology and Evolutionary Biology, Tulane University
 2014 Biology Department, Fairfield University
 2013 Department of Neurobiology and Behavior, Cornell University
 2013 National Evolutionary Synthesis Center, Duke University
 2013 Department of Biology, Indiana University
 2013 Biology Program, Bard College
 2013 Department of Biology, North Carolina State University

2012 Department of Biology and Health Sciences, Pace University
 2012 Department of Psychology, Columbia University
 2012 Department of Biology, Boston University
 2012 Empire State College
 2012 Department of Ecology and Evolutionary Biology, Princeton University
 2012 Department of Ecology and Evolutionary Biology, Univ of Connecticut (Graduate Student Invited Speaker)
 2011 Richard Gilder Graduate School, American Museum of Natural History
 2011 Biology Department, Tufts University (Graduate Student Invited Speaker)
 2011 Ecology and Evolution Department, Stony Brook University
 2011 Department of Zoology & Edward Grey Institute of Field Ornithology, Oxford University
 2011 Department of Ecology and Evolutionary Biology, Yale University
 2010 Department of Biology, Fordham University
 2010 Department of Ecology, Evolution and Behavior, University of Minnesota
 2010 University Seminar in Population Biology, Columbia University
 2010 Department of Psychology, Hunter College
 2010 Biology Department, Queens College
 2010 Department of Biological Sciences, Columbia University
 2010 Department of Animal Sciences, Rutgers University
 2009 Department of Ecology, Evolution and Environmental Biology, Columbia University
 2009 Department of Biological Sciences, Virginia Tech University
 2009 Department of Biology, San Francisco State University
 2009 Miller Institute for Basic Research, University of California, Berkeley
 2008 School of Biological Sciences, University of Auckland
 2008 Department of Ecology and Evolutionary Biology, University of California, Santa Cruz
 2008 Division of Integrative Biology, University of South Florida
 2008 Department of Biology, California State University, Fresno
 2008 School of Biological Sciences, Washington State University
 2008 Biology Department, University of Massachusetts Amherst
 2007 Department of Ecology, Evolution and Environmental Biology, Columbia University
 2007 Department of Integrative Biology, University of California, Berkeley
 2007 Ecology, Evolution, and Environmental Science Faculty, School of Life Sciences, Arizona State University
 2007 Section of Evolution and Ecology, University of California, Davis
 2006 Museum of Vertebrate Zoology, University of California, Berkeley
 2006 Department of Neurobiology and Behavior, Cornell University
 1999 Museum of Vertebrate Zoology, University of California, Berkeley

INVITED PAPERS

2020 – Symposium, Epigenetic Mechanisms and Endocrine Systems, Soc for Int & Comp Bio, Austin
 2019 Linking Individual Behavior to Community Responses in Changing Landscapes, Yale University
 2019 Symposium, Stress Responses to Organismal Phenotype, Soc for Int & Comp Bio, Tampa
 2018 Keynote Day 2, V Conference & X Symp of Psychobiology, Fed Univ of Rio Grande do Norte, Brazil
 2018 Opening Keynote, V Conference & X Symp of Psychobiology, Fed Univ of Rio Grande do Norte, Brazil
 2018 Symposium Keynote, Avian Ecological Epigenetics, International Ornithological Congress, Vancouver
 2018 Symposium, Ecol & Evol Social Insect Brains, Int Union for the Study of Social Insects, Guarujá, Brazil
 2018 Symposium, Comparative Social Evolution, Arrola
 2018 Winter Animal Behavior Conference, Steamboat Springs
 2017 Keynote, Social Complexity: Patterns, Processes and Evolution, German Primate Center, Gottigen
 2017 Symposium, Pathways in Social Evolution, Behaviour, Estoril
 2017 President's Symposium, Evol, Hormones & Behav, Society for Behav Neuroendocrinology, Long Beach
 2017 Symposium, Social Evolution and Genome Complexity, New York
 2017 Symposium, Mechanisms Underlying Variation in Pro-social Behavior, Soc Int & Comp Bio, New Orleans
 2016 Symposium, Nothing in Neurosci Makes Sense Except in Light of Behavior, Soc Int & Comp Bio, Portland
 2015 International Symposium on Biomathematics and Ecology Education and Research, Illinois State University
 2015 Symposium, New Frontiers for the Int Study of Animal Behavior, Animal Behavior Society, Anchorage
 2015 Plenary, Tipping Points in Medicine and Ecology, Institute for Systems Biology, Seattle
 2014 A Festschrift in Honor of Daniel I. Rubenstein, Princeton University
 2014 Symposium, Evolution in Stochastic Environments, Centre for Biodiversity Dynamics, NTNU, Trondheim
 2013 A Symposium in Honor of Paul W. Sherman, Cornell University
 2013 Winter Animal Behavior Conference, Steamboat Springs

- 2012 Japanese-American Kavli Frontiers of Science Symposium, National Academy of Sciences, Irvine
 2012 Plenary, Ontario Ecology, Ethology and Evolution Colloquium, McMaster University
 2011 Plenary, American Ornithologists' Union, Jacksonville
 2011 Symposium, Sexual Selection, Social Conflict and the Female Perspective, New York
 2011 Colloquium, In the Light of Evolution V, National Academy of Sciences Sackler Colloquium, Irvine
 2010 Symposium, Evolution of Avian Breeding Systems, International Ornithological Congress, Campos Jordao
 2009 Symposium, Integrative Studies Starlings and Mockingbirds, American Ornithologists' Union, Philadelphia
 2008 Symposium, Reproductive Skew, International Society for Behavioral Ecology, Cornell University
 2008 Young Investigators Symposium, Integrative Avian Biology, American Ornithologists' Union, Portland
 2007 Young Scientists Symposium, Evolutionary Ecology, University of Michigan
 2006 Young Investigators Symposium, Society for Behavioral Neuroendocrinology, Pittsburgh
 2006 Symposium, Emerging Issues in Cooperative Breeding, International Ornithological Congress, Hamburg
 2004 Symposium, Meeting of Predoctoral and Physician Postdoctoral Fellows, Howard Hughes Medical Institute

INVITED WORKING GROUPS

- 2019 Multi-Species Movement, Max Planck-Yale Center for Biodiv, Movement and Global Change, Yale Univ
 2018 American Museum of Natural History, Invisible Worlds Exhibit Design Committee, New York
 2017 National Science Foundation & Columbia Univ Seminars: Social Evol and Genome Complexity, New York
 2016 Reflective Teaching Certificate Course, Center for Teaching and Learning, Columbia University
 2016 Helmsley/National Academies Summer Institute on Undergraduate Education, University of Connecticut
 2014 National Academies Keck Futures Initiative: Collective Behavior: From Cells to Societies, Irvine
 2014 National Science Foundation: New Frontiers for the Integrative Study of Animal Behavior, New York
 2013 National Evolutionary Synthesis Center: Sexual Selection: Challenges and Future Directions, Durham
 2011 – 2013 National Evolutionary Synthesis Center: Demographic and Trait Analyses of Sociality, Durham
 2011 – 2012 National Evolutionary Synthesis Center: Integrative Models of Vertebrate Sociality, Durham
 2010 National Evolutionary Synthesis Center: Modeling Invertebrate Sociality, Durham
 2009 – 2011 National Evolutionary Synthesis Center: Integrating Sexual Selection and Speciation, Durham
 2009 National Science Foundation: Neuroendocrine and Genetic Mechanisms of Sociality, Santiago
 2000 National Science Foundation: Connectivity of Migratory Birds, Smithsonian Institution

INVITED PUBLIC LECTURES

- 2018 Dean's Day Reunion Lecturer, Frontiers of Science Mini Course, Columbia University
 2016 Dean's Day Reunion Lecturer, Frontiers of Science Mini Course, Columbia University
 2015 Pint of Science, New York
 2014 Master Class Leader, Science Invitational, Columbia University
 2014 The Linnaean Society of New York
 2014 Keynote Speaker, STEMposium, River Dell Regional High School
 2010 The Linnaean Society of New York
 2009 Café Science Columbia: Darwin Series, New York
 2007 Cornell Lab of Ornithology, Ithaca

CONTRIBUTED PAPERS (FIRST-AUTHORED ONLY)

- 2019 – Assoc for the Study of Animal Behaviour, New Frontiers in the Study of Animal Behaviour, Univ Konstanz
 2016 International Society for Behavioral Ecology, University of Exeter
 2014 Animal Behavior Society, Princeton University
 2014 International Society for Behavioral Ecology, Hunter College/NYU
 2012 International Society for Behavioral Ecology, Lund University
 2011 Animal Behavior Society, Indiana University
 2008 In the Light of Evolution III, National Academy of Sciences Sackler Colloquium, Irvine
 2008 International Society for Behavioral Ecology, Cornell University
 2007 Ecological Society of America, San Jose
 2007 Animal Behavior Society, Burlington
 2007 Society for Behavioral Neuroendocrinology, Monterey
 2006 North American Ornithological Congress, Veracruz
 2005 Animal Behavior Society, Snowbird
 2005 Society for Behavioral Neuroendocrinology, University of Texas at Austin
 2004 Society for Behavioral Neuroendocrinology, Lisbon
 2004 International Society for Behavioral Ecology, University of Jyväskylä
 2004 Society for Integrative and Comparative Biology, New Orleans
 2002 International Society for Behavioral Ecology, University of Québec at Montreal

2001 Society for Conservation Biology, University of Hawaii at Hilo
 1999 American Ornithologists' Union, Cornell University

CONFERENCES, SYMPOSIA & WORKING GROUPS CO-ORGANIZED

2017 Social Evolution and Genome Complexity, New York
 2017 Mechanisms Underlying Variation in Pro-social Behavior, Soc Int & Comp Bio, New Orleans
 2016 Nothing in Neuroscience Makes Sense Except in the Light of Behavior, Soc Int & Comp Bio, Portland
 2015 New Frontiers for the Integrative Study of Animal Behavior, Animal Behavior Society, Anchorage
 2014 National Science Foundation: New Frontiers for the Integrative Study of Animal Behavior, New York
 2014 15th Congress of the International Society for Behavioral Ecology, Hunter College/NYU
 2011 – 2013 National Evolutionary Synthesis Center: Demographic and Trait Analyses of Sociality, Durham
 2011 – 2012 National Evolutionary Synthesis Center: Integrative Models of Vertebrate Sociality, Durham
 2011 Sexual Selection, Social Conflict and the Female Perspective, New York
 2009 Integrative Studies of Starlings and Mockingbirds, American Ornithologists' Union, Philadelphia

EDITORIAL & REFEREE WORK

EDITORIAL POSITIONS

2019 – Behavioral Ecology, Editorial Board
 2014 – 2015 Current Opinion in Behavioral Sciences, Guest Editor
 2014 – Frontiers in Ecology and Evolution, Social Evolution Section, Associate Editor
 2013 – Frontiers in Ecology and Evolution, Behavioral and Evolutionary Ecology Section, Review Editor
 2012 – 2019 F1000Research, Editorial Board
 2011 – PLOS ONE, Editorial Board
 2011 – 2016 Proceedings of the Royal Society of London B, Editorial Board
 2011 – 2012 Philosophical Transactions of the Royal Society B, Guest Editor
 2010 – Behavioral Ecology and Sociobiology, Associate Editor
 2010 – 2019 F1000Prime, Theoretical Ecology Section, Faculty Member

JOURNALS ARTICLES (91 JOURNALS)

African Journal of Ecology	Ecology Letters	Journal of Zoology
The American Naturalist	Ecosphere	JSM Environmental Science & Ecology
Animal Behaviour	Endangered Species Research	Molecular Biology Reports
Ardea	Emu	Molecular Ecology
Asian Bioethics Review	Estuaries and Coasts	Movement Ecology
The Auk	Ethology	Nature
Basic and Applied Social Psychology	Evolution	Nature Communications
Behavioral Ecology	Evolution Letters	Nature Ecology & Evolution
Behavioral Ecology and Sociobiology	F1000 Research	Nature Education Knowledge
Behaviour	Frontiers in Behav and Evol Ecology	Naturwissenschaften
Biological Conservation	Frontiers in Social Evolution	Oecologia
Biology Letters	Frontiers in Zoology	The Open Evolution Journal
Biological Journal of Linnean Society	Functional Ecology	PeerJ
Biological Reviews	General and Comparative Endocrinology	Philosophical Transactions Royal Soc B
Bird Conservation International	Geosciences	Physiological and Biochemical Zoology
BMC Ecology	Global Change Biology	PLOS Biology
BMC Evolutionary Biology	Global Ecology and Biogeography	PLOS ONE
British J Medicine and Medical Research	Heredity	PNAS
Cell Systems	Hormones and Behavior	Proceedings Royal Society of London B
Chemical Geology	Ibis	Restoration Ecology
The Condor	Journal of Animal Ecology	Royal Society Open Science
Current Anthropology	Journal of Applied Entomology	Science
Current Biology	Journal of Avian Biology	Science Advances
Current Zoology	Journal of Biogeography	The Science of Nature
Diversity and Distribution	Journal of Evolutionary Biology	Science of the Total Environment
Ecography	Journal of Experimental Biology	Scientific Reports
Ecological Applications	Journal of Field Ornithology	Southwestern Naturalist
Ecological Indicators	Journal of Poultry Science	Trends in Ecology and Evolution
Ecology	Journal of Wildlife Management	Trends in Parasitology
Ecology and Evolution	Journal of Zoo and Aquarium Research	The Wilson Journal of Ornithology

Zoological Studies

RESEARCH GRANTS (APPOINTMENTS)

Australian Research Council, Assessor
 European Science Foundation, College of Expert Reviewers

RESEARCH GRANTS (PANELS & COMMITTEES)

Columbia Earth Institute Travel Grant Program
 Columbia President's Global Innovation Fund
 Columbia Provost's Teaching & Learning Grants
 Columbia Science Research Fellows Program
 Columbia internal NSF PIRE
 Cornell Sigma Xi
 National Geographic Society, Regional Mentor, East African Region
 National Science Foundation, Environmental Biology (Dimensions of Biodiversity)
 National Science Foundation, Integrative Organismal Systems (Behavioral Systems Doctoral Dissertation Improvement Grant)
 National Science Foundation, Integrative Organismal Systems (Behavioral Systems Pre-proposal)
 National Science Foundation, Integrative Organismal Systems (Behavioral Systems Full Proposal)

RESEARCH GRANTS (OUTSIDE REFEREE)

Animal Behavior Society Student Research Grants
 American Association for the Advancement of Science
 American Philosophical Society
 Austrian Academy of Sciences
 Chilean National Science and Technology Commission
 Cornell Center for the Environment
 Columbia Research Initiatives in Science & Engineering
 Columbia internal Fulbright
 Czech Science Foundation
 European Research Council
 French National Research Agency
 German Academic Exchange Service
 German Research Foundation
 Graduate Women in Science
 Israeli Science Foundation
 Louisiana Board of Regents
 Marsden Fund, New Zealand
 Natural Environmental Research Council, United Kingdom
 National Geographic Society
 National Institutes of Health, Biobehavioral and Behavioral Processes
 National Science Foundation, LEAP
 National Science Foundation, Division of Environmental Biology (Ecology)
 National Science Foundation, Division of Environmental Biology (Population and Community Ecology)
 National Science Foundation, Division of Environmental Biology (Population and Evolutionary Processes)
 National Science Foundation, Division of Ocean Sciences (Biological Oceanography)
 National Science Foundation, Integrative Organismal Systems (Animal Behavior)
 National Oceanic and Atmospheric Administration / National Marine Fisheries Service
 Netherlands Organisation for Scientific Research
 New Zealand Ministry of Science and Innovation
 Research Foundation Flanders
 Swiss National Science Foundation

BOOKS

Cambridge University Press
 Elsevier Press

Sinauer Associates, Inc.
 Springer

Tropical Herping
 The University of Chicago Press

SELECTED PRESS COVERAGE

ABC News	Huffington Post	Science 360
AAAS Science Update Radio	HHMI Bulletin	Science (Perspectives)
American Scientist	MSNBC	ScienceNOW
BBC Radio	National Geographic	Science News
California Academy Sciences	National Public Radio (NPR)	Scientific American
Columbia College Ann Report	Nature (Abstractions)	Sydney Morning Herald
Columbia College Today	Nature (News)	The Scientist
Columbia Magazine	Nature Podcast	Thomson Reuters
Cornell Chronicle	Nature Science Update	Trends in Ecology & Evolution
Current Biology	Nautilus	Today
Dartmouth News	Newsweek	US News & World Report
Discovery News	New Scientist	The Washington Post
ESPN Outside the Lines	NPR Radio	The Weather Channel
F1000 Prime	The New York Times	Wired Magazine
German Public Radio	San Diego Tribune	Yahoo News

MENTORING**POSTDOC**

2019 –	Renata Mazzei (Swiss National Science Foundation Early Postdoc.Mobility Fellow)
2017 –	Shana Caro (Simons Foundation Society Fellowship)
2016 – 2019	Solomon Chak (Life Sciences Research Foundation Fellowship from Simons Foundation) <i>Current Position: Postdoctoral Scholar, NJIT (Assistant Professor, SUNY Old Westbury, starting F2020)</i>
2015 – 2018	Rafael Maia (Simons Foundation Society Fellowship) <i>Current Position: Senior Data Scientist, Instacart</i>
2014 – 2017	Katherine Brooks (Columbia Frontiers of Science Fellowship) <i>Current Position: Collection Analysis Librarian, Columbia University</i>
2015 – 2016	Stephen Harris (Columbia Frontiers of Science Fellowship) <i>Current Position: Assistant Professor, SUNY Purchase</i>
2009 – 2012	Melissa Mark (NSF Minority Postdoctoral Research Fellowship) <i>Current Position: Director, Doris Duke Conservation Scholars Program, Northern Arizona University</i>

PH.D.

2024 exp.	Alexis Earl (NSF Graduate Research Fellowship Honorable Mention)
2021 exp.	Shailee Shah
2021 exp.	Stefanie Siller (NSF Graduate Research Fellowship)
2020 exp.	Jay Falk (NSF Graduate Research Fellowship) (at Cornell University, co-advised with M. Webster)
2020 exp.	Yi-Ru Cheng
2017	Sarah Guindre-Parker (NSERC Postgraduate Scholarship) <i>Current Position: Assistant Professor, Kennesaw State University</i>

M.A.

2021 exp.	Jerry Shuzhe Guan
2021 exp.	Catherine Yung-Yi Lan
2017	Eleanor Diamant (NSF Graduate Research Fellowship Honorable Mention) <i>Current Position: Ph.D. student, UCLA</i>
2017	Yuki Haba <i>Current Position: Ph.D. student, Princeton University</i>
2017	Alyxandra Pikus <i>Current Position: Associate Director of Program Development, Oxbridge Academic Programs</i>
2015	Natalie Hofmeister <i>Current Position: Ph.D. student, Cornell University</i>
2013	Rebecca Kelley (NSF Graduate Research Fellowship Honorable Mention, 2x) <i>Current Position: Data Scientist, Amazon (Ph.D. New Mexico State University)</i>
2012	Kathleen Apakupakul <i>Current Position: Research Associate, Institute for Conservation Medicine, Saint Louis Zoo</i>
2012	James Kealey <i>Current Position: Science Teacher, Bret Harte Middle School, Oakland</i>

2011 Sara Keen (NSF Graduate Research Fellowship Honorable Mention, 2x)
Current Position: Ph.D. student, Cornell University

UNDERGRADUATE THESES

2021 exp. Faith Ajayi (Rabi Scholars Program)
 2020 exp. Arden Berlinger (Science Research Fellows Program)
 2015 Laura Booth
Current Position: Park Ranger, Muir Woods National Monument
 2015 Hannah Skolnik (Amgen Scholars Program)
Current Position: D.V.M. Student, University of California, Davis
 2014 Lucia Weinman
Current Position: Ph.D. student, Rutgers University
 2012 Caitlin Dean
Current Position: J.D. student, University of Michigan
 2012 Julia Pilowsky (NSF Graduate Research Fellowship for Tufts University)
Current Position: Ph.D. student, University of Copenhagen (M.A. Tufts University)
 2012 Lea Pollack (Summer Undergraduate Research Fellows Program)
Current Position: Ph.D. student, University of California, Davis
 2011 Jeremy Law
Current Position: Construction Manager, New York Tree Trust (M.A. Columbia University)

UNDERGRADUATE INTERNS

2022 exp. Sarah Marazzi-Sassoon
 2021 exp. One Jae Lee
 2020 exp. Shoshana Sernik
 2020 exp. Sophia Kislik
 2020 exp. Christian Eggers
 2019 Joseph Kneec
 2019 Kaiulani Sakaguchi
 2019 Jake Arlow
 2018 Francesca Garofalo
 2017 Tatini Mal-Sarkar (Rabi Scholars Program)
 2017 Michael Spiotta
 2016 Karen Bao
 2016 Fayme Cai
 2015 Catherine Chen
 2015 Elora Lopez
 2015 Brahadheeshwar Sundararaju
 2014 Nathen Huang
 2014 Kerstin Nolan
 2014 Sonalee Rau
 2013 Madeline Cohen (NOAA Hollings Scholarship)
 2013 Ben Eckersley
 2012 Nathan Bailey
 2012 Heather D'Angelo
 2012 Jordan Hollarsmith (NOAA Hollings Scholarship)
 2006 Brynn McCleery

POST BACCALAUREATE INTERNS

2020 exp. Shane Fallon
 2015 Stefanie Siller

HIGH SCHOOL INTERNS

2018	Livia Marchese (Briarcliff High School)
2018	Hank Marriott (Ethical Culture Fieldston School)
2017 –	Zhaleh Mahootian (Bronx High School of Science Biological and Physical Research Mentorship Program)
2017	Regina Hashim (home school student)
2016 – 2017	Myron Huang (Bronx High School of Science Biological and Physical Research Mentorship Program)
2016 – 2017	Rebecca Marcus (Mamaroneck High School Science Research Elective Program)
2016	Samuel Levy (Abram Joshua Heschel School Science Research Program)
2015	Katherine Grygierczyk (Valley Stream South High School Independent Science Research Program)
2011 – 2013	Gillian Carling (Bronx High School of Science Biological and Physical Research Mentorship Program)

GRADUATE COMMITTEES (#CHAIR)

2022 –	Natalie Niepoth [#] , Ph.D., E3B Columbia University (Major Advisors: Andres Bendesky)
2019 –	Jacqueline Barry [#] , M.A., E3B Columbia University (Major Advisors: Joel Cracraft)
2019	Montana Airey, M.A., E3B Columbia University (Major Advisor: Josh Drew)
2017	Brian Weeks [#] , Ph.D., E3B Columbia University (Major Advisors: Shahid Naeem and Joel Cracraft)
2017	Aaron Owen, Ph.D., The City University of New York (Major Advisor: David Lahti)
2016	Charlotte Barkan, Ph.D., Neurobiology and Behavior Columbia University (Major Advisor: Darcy Kelley)
2016	Camillo Sanin [#] , Ph.D., E3B Columbia University (Major Advisor: Joel Cracraft)
2016	Tin Chi Solomon Chak, Ph.D., College of William and Mary (Major Advisor: Emmett Duffy)
2016	Nathalia Rossi [#] , Ph.D., E3B Columbia University (Major Advisor: Joshua Ginsberg)
2015	Allison Roth [#] , M.A., E3B Columbia University (Major Advisor: Marina Cords)
2015	Benedicte Bachelot [#] , Ph.D., E3B Columbia University (Major Advisor: Maria Uriarte)
2015	Gavin Leighton, Ph.D., University of Miami (Major Advisor: William Searcy)
2014	Robert Muscarella [#] , Ph.D., E3B Columbia University (Major Advisor: Maria Uriarte)
2014	Rafael Maia, Ph.D., University of Akron (Major Advisor: Matthew Shawkey)
2014	Su-Jen Roberts, Ph.D., E3B Columbia University (Major Advisor: Marina Cords)
2014	Matthew Fagan, Ph.D., E3B Columbia University (Major Advisor: Ruth DeFries)
2013	Jacob Lowenstein [#] , Ph.D., ABD, E3B Columbia University (Major Advisor: Melanie Stiassny)
2013	Irene Ballagh, Ph.D., Neurobiology and Behavior Columbia University (Major Advisor: Darcy Kelley)
2012	Snorri Sigurdsson, Ph.D., The City University of New York (Major Advisor: Joel Cracraft)
2012	James Fuller [#] , Ph.D., E3B Columbia University (Major Advisor: Marina Cords)
2012	Marina Cortes [#] , Ph.D., E3B Columbia University (Major Advisor: Maria Uriarte)
2012	Evan McCartney-Melstad [#] , M.A., E3B Columbia University (Major Advisor: George Amato)
2011	Alicia Srinivas [#] , M.A., E3B Columbia University (Major Advisor: Miguel Pinedo-Vasquez)
2010	Joseph Solomon, M.A., Hunter College (Major Advisor: Mark Hauber)
2010	Emily Schmidt [#] , M.A., ABD, E3B Columbia University (Major Advisor: Christine Sheppard)
2010	Allisyn Gillet [#] , M.A., E3B Columbia University (Major Advisor: Christine Sheppard)
2010	Danielle Adams [#] , M.A., E3B Columbia University (Major Advisor: Christine Sheppard)

VISITORS

2018 –	Timothy Grieves, North Dakota State University (NSF EPSCoR Res Infrastructure Improvement Grant)
2018 – 2019	Gabrielle Welsh, University of Maryland
2017	Alexander Gottdiener, Princeton University
2015 – 2016	Sarah Khalil, Cornell University
2015	Juan Rubalcaba, King Juan Carlos University (Spanish International Visiting Researcher Scholarship)
2015	Linnet Jessell, University of Kings College/Dalhousie University
2012 – 2013	Suraj Nagaraj, University of California, Berkeley
2011 – 2012	Joseph Solomon, Hunter College
2011	Rafael Maia, University of Akron (NSF Doctoral Dissertation Improvement Grant)
2011	Rebecca Harris, Cornell University
2008 – 2012	Daniel Meliza, University of Chicago (NIH-NIDCD Postdoctoral Fellowship)
2007 – 2008	Rebecca Calisi, University of California, Berkeley (Society for Integrative and Comparative Biology Grant)
2007	Brynn McCleery, Cornell University
2007	Tyler Davis, Cornell University (Explorers Club Grant)

GRADUATE ORAL EXAMINATION COMMITTEE

2016	Andrew Quebbeman (Major Advisors: Duncan Menge and Maria Uriarte)
2016	Thomas Bytnerowicz (Major Advisor: Duncan Menge)
2016	Jay Falk (Major Advisors: Michael Webster and Dustin Rubenstein)
2016	Benton Taylor (Major Advisor: Duncan Menge)
2013	Brian Weeks (Major Advisors: Shahid Naeem and Joel Cracraft)
2012	Camillo Sanin (Major Advisor: Joel Cracraft)
2013	Nathalia Rossi (Major Advisor: Joshua Ginsberg)
2011	Robert Muscarella (Major Advisor: Maria Uriarte)

GRADUATE OUTSIDE DISSERTATION READER

2017	David Seager, University of Exeter, Penryn (Major Advisor: Michael Cant)
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SYNERGISTIC ACTIVITIES**UNIVERSITY SERVICE**

2019 – 2022	Elected Member, Arts and Sciences Policy and Planning Committee (PPC)
2019	Member, Faculty Review Committee for Provost's Teaching & Learning Grant Committee
2019	Member, Symposium Advisory Committee, Zuckerman Mind, Brain, Behavior Institute
2018 – 2019	Director, Global Scholars Program in China: Adapting to Changing Climates
2018 – 2019	Member, Department of Psychology Faculty Search Committee
2017 –	Member, Columbia President's Global Innovation Fund Committee, Columbia Global Centers
2016 – 2019	Member, Columbia College-School of General Studies Joint Committee on Instruction (COI)
2016 –	Member, Zuckerman Mind, Brain, Behavior Institute Affiliate Membership Committee
2016 – 2017	Member, Columbia Center for Teaching and Learning Executive Director Search Committee
2016 – 2017	Chair, Junior Faculty Advisory Board
2016	Dean's Day Reunion Lecturer, Frontiers of Science Mini Course
2015 – 2016	Elected Member, Junior Faculty Advisory Board
2015	Guest Lecturer, Seminar on Science Writing, Columbia School of Journalism
2015	Member, Packard Fellowships in Science and Engineering Committee, Columbia Office of Res Initiatives
2014 –	Member, Faculty Steering Committee, Columbia Global Centers Nairobi
2014 – 2016	Member, Joint Arts and Sciences & Zuckerman Mind, Brain, Behavior Initiative Faculty Search Committee
2014	Faculty Mentor, Presidential Global Fellowship Program
2014	Founding Member, Junior Faculty Advisory Board
2014	Member, NSF Advisory Committee, Columbia Office of Research Initiatives
2014	Master Class Leader, Science Invitational, Columbia Admissions Office
2013	Panelist, History of Neuroscience Reading Group, Heyman Center for the Humanities
2013	Faculty Mentor, Amgen Scholars Program
2012 –	Director, Program in Tropical Biology and Sustainability
2012	Panelist, Psychology Department Graduate Student Development Panel
2011 –	Department Liaison, Science Scholars Experience, Columbia Admissions Office
2011 –	Member, Science Research Fellows Admissions Committee
2011	Panelist, Columbia Neuroscience Society Annual Research Symposium
2011	Member, Fulbright Campus Committee
2011	Panelist, Neuroscience and Behavior Graduate Student Recruitment Panel
2011	Member, Review Committee of the Guidelines for Laboratory Design Criteria
2010 – 2014	Co-Chair, The University Seminar in Population Biology
2010 –	(10x) Guest Lecturer, Science Research Fellows Seminar

DEPARTMENTAL SERVICE

2015 – 2016 Chair, E3B Faculty Search Committee
 2011 – 2012 Chair, E3B Curriculum Committee
 2010 – 2011 Member, E3B M.A. Program Review Committee
 2010 – 2011 Chair, E3B Faculty Search Committee
 2010 – 2011 Member, E3B Ph.D. Program Review Committee
 2010 – 2011 Organizer, E3B Seminar Series
 2009 – 2013 Co-chair, E3B Lab Use Committee
 2009 Rotating Member, E3B Standing Committee
 2007 – 2009 Program Committee, Miller Institute Interdisciplinary Symposium (University of California, Berkeley)
 2007 – 2008 Co-organizer, Department of Integrative Biology Behavior Lunch (University of California, Berkeley)
 2005 Co-editor, Department of Neurobiology and Behavior Newsletter (Cornell University)
 2001 – 2002 Co-organizer, Department of Neurobiology and Behavior Seminar Series (Cornell University)

EXTERNAL UNIVERSITY PROGRAM REVIEWS

2019 Carl R. Woese Institute for Genomic Biology, University of Illinois at Urbana-Champaign

PROFESSIONAL SERVICE

2013 – 2014 Local Committee, 15th Congress of the International Society for Behavioral Ecology, Hunter College/NYU
 2011 Member, Animal Behavior Society Student Research Grant Committee
 2010 – 2011 (2x) Mentor, Student Conference on Conservation Science, American Museum of Natural History
 2009 Judge, student presentation awards, American Ornithologists' Union, Philadelphia
 2007 Judge, student presentation awards, Ecological Society of America, San Jose

CONSULTANCIES

2014 ESPN Outside the Lines, coevolution and baseball
 2011 Delphi Fellow, Big Think: Interdisciplinary Global Knowledge Forum
 2000 BBC, The Blue Planet, Galápagos hawks and marine iguanas

EDUCATIONAL OUTREACH

2010 Alumni interviewer, Dartmouth College (Manhattan Region)
 2008 – Participant, Northern Kenya Conservation Clubs, Laikipia, Kenya
 2004 Co-instructor, Workshop on Molecular Methods in Ornithology, National Museums of Kenya
 2004 Organizer, Workshop on Comparative Methods, Cornell University
 2000 – 2004 Alumni interviewer, Dartmouth College (Central New York Region)
 1998 – 1999 Senior advisor, Office of the Dean of the College, Dartmouth College
 1998 Founder, Conservation Lecture Series and Discussion Group, Dartmouth College

ADVISORS

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 Ph.D. Paul Sherman and Stephen Emlen, Cornell University
 A.B. Richard Holmes and C. Page Chamberlain, Dartmouth College