DUSTIN REID RUBENSTEIN
Professor

Columbia University • Department of Ecology, Evolution and Environmental Biology
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CURRENT RESEARCH AREAS AND APPROACHES

- animal behavior, behavioral ecology, evolutionary biology, evolutionary ecology
- social behavior, cooperation, natural selection, kin selection, sexual selection, social conflict
- environmental change, environmental coping, stress physiology, behavioral endocrinology
- epigenetics, functional genomics, evolutionary genetics, population genetics, gene expression
- mathematical modeling, game theory, evolutionary simulations, phylogenetic comparative methods

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

2023 –	Director of Graduate Studies, Dept of Ecology, Evolution and Environmental Biology, Columbia University
2021 –	Professor, Department of Ecology, Evolution and Environmental Biology, Columbia University
2014 –	Founding Chair, The University Seminar in the Integrative Study of Animal Behavior, Columbia University

AFFILIATIONS

2021 –	Affiliate Member, Data Science Institute, Columbia University
2018 –	Affiliate Member, Zuckerman Mind Brain Behavior Institute, Columbia University
2015 –	Affiliated Faculty, Center for Integrative Animal Behavior, Columbia University
2015 –	Affiliated Faculty, Initiative on Extreme Weather and Climate, Columbia University
2014 –	Affiliated Scientist, Kenya Wildlife Service
2011 –	Faculty Mentor, Program in Neurobiology and Behavior, Columbia University
2010 –	Research Associate, Division of Vertebrate Zoology, American Museum of Natural History
2001 –	Affiliated Scientist, Mpala Research Centre

PREVIOUS

2012 – 2023	Founding Director, Program in Tropical Biology and Sustainability, Columbia University
2015 – 2023	Founding Director, Center for Integrative Animal Behavior, Columbia University
2016 – 2021	Associate Professor (tenured), Department of Ecology, Evolution and Env Biology, Columbia University
2018 – 2020	Founding Co-Director, sTEAM Fellows Program, Columbia University
2001 – 2017	Affiliated Scientist, Ornithology Section, National Museums of Kenya
2014 – 2016	Associate Professor (untenured), 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
2005 – 2010	Visiting Lecturer, Department of Ecology and Evolutionary Biology, Cornell University
2006 – 2009	Miller Research Fellow, Integrative Biology & Museum Vert Zoology, University of California, Berkeley
2005 – 2006	Excellence Fellow, Cornell University
2000 – 2005	Howard Hughes Medical Institute Predoctoral Fellow, Cornell University
2003 – 2004	Smithsonian Institution Predoctoral Fellow, Smithsonian Tropical Research Institute
1999 – 2000	Reynolds Scholar, Dartmouth College

HONORS & AWARDS

2021	Fellow, American Association for the Advancement of Science
2020	Best of Trends 2019: Best Review in *Trends in Ecology & Evolution*
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

2014	National Geographic Explorer
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, 8th 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

2024 – 2026	Defense Advanced Research Projects Agency (DARPA) (one of multiple Co-PIs)
2022 – 2026	Australian Research Council (Co-PI with R Firman)
2021 – 2025	Australian Research Council (Co-PI with M Whiting, G While)
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)

GRADUATE AND POSTDOC GRANTS

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

UNDERGRADUATE GRANTS

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

IN PREPARATION

137. Shen S-F and **DR Rubenstein**. Environmental uncertainty and social behavior.
136. **Rubenstein DR** and Shen S-F and. The evolution of cooperative breeding: linking direct, indirect and dual benefits.
135. Siller Wilks SJ, DF Westneat, BJ Heidinger, J Solomon and **DR Rubenstein**. Developmental changes in DNA methylation have long-term fitness consequences in wild house sparrows (*Passer domesticus*).
134. Chen B-F, Y-C Li, **DR Rubenstein**, S-J Sun, M Liu, D-P Chen and S-F Shen. Interspecific competition promotes cooperation and reduces thermal demands in a social burying beetle.
133. Li Y-C, **DR Rubenstein**, S-C Lin, G-S Mai, M Liu and S-F Shen. Extreme temperature-sensitive task allocation determines complex problem-solving in a social insect.
132. Chang C-F, S-F Chan, M Liu, **DR Rubenstein**, S-P Huang, S-C Chan, Y-Y Chen, Y-H Lin, Y Tang and S-F Shen. Interspecific competition constrains the elevational distribution of social insects through suppression of cooperation.
131. Wen Y-H, J Mai, **DR Rubenstein**, S Wu, J-C Lin, M Liu and S-F Shen. Generative artificial intelligence reveals how harsh environments promote the evolution of sexual dimorphism in moths.
130. Kennedy P, M Tindo, PS Masse, Q Guignard, S Kapmegne, R Tcheutchoua, M Keeping , C Pirk, AR Radford and **DR Rubenstein**. Climate shapes cooperation in Africa's continent-spanning wasps.
129. Earl AD, GG Carter, SS Shah, AG Berlinger and **DR Rubenstein**. A cryptic role for reciprocal helping in a cooperatively breeding bird.

SUBMITTED

128. Falk JJ, MS Webster and **DR Rubenstein**. The maintenance of adaptive polymorphism.
127. Garcia Ruiz I and **DR Rubenstein**. Fitness drivers of division of labour in vertebrates.
126. Ben Mocha Y, M Woith, F Frisoni, SM Drobniak, S Markman, V Baglione, J Boersma, L Cousseau, SA Kingma, AN Radford, C Restrepo, **DR Rubenstein**, C Schradin, J Theuerkauf, MH Warrington and M Griesser. GCoo-BreeD: advancing comparative research on cooperative breeding with a peer-reviewed and updatable Global Cooperative Breeding Database.
125. Chan S-F, M Liu, **DR Rubenstein**, Y-A Chung, W Lin, L-Y Liao and S-F Shen. Re-establishing niche space for endangered Formosan salmon through reintroduction to historical habitat.
124. Mai J, J-P Huang, **DR Rubenstein**, Y-H Wen, M Liao, J-C Lin, S Wu, M Liu and S-F Shen. The rise of morphological diversity in butterflies and moths.

RESEARCH ARTICLES

123. Chan S-F, **DR Rubenstein**, T-W Wang, Y-Y Chen, I-C Chen, D-Z Ni, W-K Shih and S-F Shen. 2024. Allee effects mediate the impact of land-use change on the thermal niche of social species. ***Ecological Monographs*** In press.
122. Shah SS and **DR Rubenstein**. 2024. Intraspecific variation in the social structure of a cooperative breeder arises due to fine-scale environmental conditions governing directional dispersal. ***Journal of Animal Ecology*** In press.
121. Wikelski M, M Quetting, J Bates, T Berger-Wolf, G Bohrer, L Börger, T Chapple, M Crofoot, SC Davidson, DKN Dechmann, D Ellis-Soto, L Ellwood, W Fiedler, A Flack, B Fruth, N Franconi, RW Havmøller, J Hirt, NR Hussey, F Iannarilli, M Landwehr, ME Müller, T Müller, U Müller, R Oliver, J Partecke, L Pokrovskaya, **DR Rubenstein**, C Rutz, K Safi, A Santangeli, L van Schalkwyk, A Sequeira, T Ramesh, P Viljoen, K Wasik, S Yanco and R Kays. 2024. Introducing a unique animal ID and digital life history museum for wildlife. ***Methods in Ecology and Evolution*** In press.
120. Potticary, AL, MC Belk, JC Creighton, M Ito, R Kilner, J Komdeur, NJ Royle, **DR Rubenstein**, M Schrader, S-F Shen, DS Sikes, PT Smiseth, R Smith, S Steiger, ST Trumbo and AJ Moore. 2024. Revisiting the ecology and evolution of burying beetles (Staphylinidae: Silphinae). ***Ecology and Evolution*** 14:e70175.
119. Siller Wilks SJ, BJ Heidinger, DF Westneat, J Solomon and **DR Rubenstein**. 2024. The impact of parental and developmental stress on DNA methylation in the avian hypothalamic-pituitary-adrenal axis. ***Molecular Ecology*** 33:e17291.
118. Rubenstein DI and **DR Rubenstein**. 2023. Social behavior and animal societies. In ***Encyclopedia of Biodiversity, 3rd Edition*** (Scheiner, S, ed.). Elsevier, New York.
117. Shen S-F, HK Reeve, ST Emlen, M Liu and **DR Rubenstein**. 2023. Group size and the resolution of insider-outsider conflict in animal societies. ***Animal Behaviour*** 205:107-116.
116. Siller Wilks SJ, DF Westneat, BJ Heidinger, J Solomon and **DR Rubenstein**. 2023. Epigenetic modification of the hypothalamic-pituitary-adrenal (HPA) axis during development in the house sparrow (*Passer domesticus*). ***General and Comparative Endocrinology*** 341:114336.
115. Lin Y-H, Y-Y Chen, **DR Rubenstein**, M Liu and S-F Shen. 2023. Environmental quality mediates the ecological dominance of cooperatively breeding birds. ***Ecology Letters*** 26:1145–1156.
114. Chan S-F, M Liu, **DR Rubenstein**, I-C Chen, Y-M Fan, Y-W Zheng and S-F Shen. 2023. Higher temperature variability in deforested mountain regions impacts the competitive advantage of nocturnal species. ***Proceedings of the Royal Society of London B*** 290:20230529.

113. Halupka, L, D Arlt, J Tolvanen, A Millon, P Bize, P Adamík, P Albert, WJ Arendt, AV Artemyev, V Baglione, J Bańbura, M Bańbura, E Barba, RT Barrett, PH Becker, E Belskii, M Bolton, EK Bowers, J Bried, LBrouwer, M Bukacińska, D Bukaciński, L Bulluck, KF Carstens, I Catry, M Charter, A Chernomorets, R Covas, M Czuchra, DC Dearborn, F de Lope, AS Di Giacomo, VC Dombrovski, H Drummond, MJ Dunn, T Eeva, LM Emmerson, Y Espmark, JA Fargallo, SI Gashkov, EY Golubova, M Griesser, MP Harris, JP Hoover, Z Jagiełło, P Karell, J Kloskowski, WD Koenig, H Kolunen, M Korczak-Abshire, E Korpimäki, I Krams, M Krist, SC Krüger, BD Kuranov, X Lambin, MP Lombardo, A Lyakhov, A Marzal, AP Møller, VC Neves, JT Nielsen, A Numerov, B Orłowska, D Oro, M Öst, RA Phillips, H Pietiäinen, V Polo, J Porkert, J Potti, H Pöysä, T Printemps, J Prop, P Quillfeldt, JA Ramos, P-A Ravussin, RN Rosenfield, Alexandre Roulin, **DR Rubenstein**, IE Samusenko, DA Saunders, M Schaub, J Senar, F Sergio, T Solonen, DV Solovyeva, J Stępniewski, PM Thompson, M Tobolka, J Török, M van de Pol, L Vernooij, ME Visser, DF Westneat, NT Wheelwright, J Wiącek, KL Wiebe, AG Wood, A Wuczyński, D Wysocki, M Zárybnická, A Margalida and K Halupka. 2023. The effect of climate change on offspring production in 201 avian populations: a global meta-analysis. ***Proceedings of the National Academy of Sciences USA*** 120:e2208389120.
112. Shah SS and **DR Rubenstein**. 2023. Group augmentation underlies the evolution of complex sociality in the face of environmental instability. ***Proceedings of the National Academy of Sciences USA*** 120:e2212211120.
111. **Rubenstein DR** and J Solomon. 2023. Target-enriched enzymatic methyl sequencing: flexible, scalable and inexpensive hybridization capture for quantifying DNA methylation. ***PLOS ONE*** 18:e0282672.
110. Chak STC, SE Harris, KM Hultgren, JE Duffy and **DR Rubenstein**. 2022. Demographic inference provides insights into the extirpation and ecological dominance of eusocial snapping shrimps. ***Journal of Heredity*** 113:552-562.
109. Falk JJ, **DR Rubenstein**, A Rico-Guevara and MS Webster. 2022. Intersexual social dominance mimicry drives female hummingbird polymorphism. ***Proceedings of the Royal Society of London B*** 289:20220332.
108. Firman RC, **DR Rubenstein** and BA Buzatto. 2022. The spatial and temporal distribution of females influence the evolution of testes size in Australian rodents. ***Biology Letters*** 18:20220058.
107. Little J, **DR Rubenstein** and S Guindre-Parker. 2022. Plasticity in social behaviour varies with reproductive status in an avian cooperative breeder. ***Proceedings of the Royal Society of London B*** 289:20220355.
106. Shah SS and **DR Rubenstein**. 2022. Prenatal environmental conditions underlie alternative reproductive tactics that drive the formation of a mixed-kin cooperative society. ***Science Advances*** 8:eabk2220.
105. Chen Y-Y, **DR Rubenstein** and S-F Shen. 2022. Cooperation and lateral forces: moving beyond bottom-up and top-down drivers of animal population dynamics. ***Frontiers in Psychology*** 13:768773.
104. Liu M, **DR Rubenstein**, SA Cheong and S-F Shen. 2021. Antagonistic effects of long- and short-term environmental variation on species coexistence. ***Proceedings of the Royal Society of London B*** 288:20211491.
103. Falk JJ, MS Webster and **DR Rubenstein**. 2021. Male-like ornamentation in female hummingbirds results from social harassment rather than sexual selection. ***Current Biology*** 31:4381-4387.
102. Guindre-Parker S and **DR Rubenstein**. 2021. Long-term measures of climate unpredictability shape the avian endocrine stress axis. ***The American Naturalist*** 198:394-405.
101. Mazzei R and **DR Rubenstein**. 2021. Larval ecology, dispersal and the evolution of sociality in the sea. ***Ethology*** 127:808–820.
100. Chak STC, SE Harris, KM Hultgren, NW Jeffrey and **DR Rubenstein**. 2021. Eusociality in snapping shrimps is associated with larger genomes and an accumulation of transposable elements. ***Proceedings of the National Academy of Sciences USA*** 118:e2025051118.
99. **Rubenstein DR**, A Corvelo, MD MacManes, R Maia, G Narzisi, A Rousaki, P Vandenabeele, M Shawkey and J Solomon. 2021. Feather gene expression elucidates the developmental basis of iridescence in African starlings. ***Journal of Heredity*** 112:417-429.
98. Diamant ES, JJ Falk and **DR Rubenstein**. 2021. Male-like female morphs in hummingbirds: the evolution of a widespread sex-limited plumage polymorphism. ***Proceedings of the Royal Society of London B*** 288:20203004.
97. Liu M, B-F Chen, **DR Rubenstein** and S-F Shen. 2020. Social rank modulates how environmental quality influences cooperation and conflict within animal societies. ***Proceedings of the Royal Society of London B*** 287:20201720.
96. Antonson ND, **DR Rubenstein**, ME Hauber and CA Botero. 2020. Ecological uncertainty favours the diversification of host use in avian brood parasites. ***Nature Communications*** 11:4185.
95. Tsai H-Y, **DR Rubenstein**, B-F Chen, M Liu, S-F Chan, Y-M Fan, D-P Chen, S-J Sun, T-N Yuan and S-F Shen. 2020. Antagonistic effects of intraspecific cooperation and interspecific competition on thermal performance. ***eLife*** 9:e57022.
94. Guindre-Parker S and **DR Rubenstein**. 2020. Survival benefits of group living in a fluctuating environment. ***The American Naturalist*** 195:1027-1036.
93. Liu M, S-F Chan, **DR Rubenstein**, S-J Sun, B-F Chen and S-F Shen. 2020. Ecological transitions in grouping benefits explain the paradox of environmental quality and sociality. ***The American Naturalist*** 195:818-832.
92. Tsai H-Y, **DR Rubenstein**, Y-M Fan, T-N Yuan, B-F Chen, Y Tang, I-C Chen and SF Shen. 2020. Locally-adapted reproductive photoperiodism determines population vulnerability to climate change. ***Nature Communications*** 11:1398.
91. Firman RC, **DR Rubenstein**, JM Moran, KC Rowe and BA Buzatto. 2020. Extreme and variable climatic conditions drive the evolution of sociality in Australian rodents. ***Current Biology*** 30:691-697.

90. Chen B-F, M Liu, **DR Rubenstein**, S-J Sun, J-N Liu, Y-H Lin and S-F Shen. 2020. A chemically triggered transition from conflict to cooperation in burying beetles. ***Ecology Letters*** 23:467-475.
89. Chak STC and **DR Rubenstein**. 2019. TERAD: Extraction of transposable element composition from RADseq data. ***Molecular Ecology Resources*** 19:1681-1688.
88. 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*** 286:20191623.
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*** 10:4554.
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 & 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. Shen S-F, 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 & 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, New York, 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 & 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, *Lamprotornis 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 & 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

16. **Rubenstein DR**. 2021. Social evolution. ***Henry Stewart Talks***.
15. **Rubenstein DR**. 2021. Darwinian puzzles: from natural to sexual to kin selection. ***AMNH Seminars on Science***.
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 Remage-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

5. **Rubenstein DR**. TBD. ***Animal Behavior, 13th Edition***. Oxford University Press, New York.
4. Kennedy P and **DR Rubenstein**. TBD. ***Kin Selection***. Oxford University Press, New York.
3. **Rubenstein DR**. 2022. ***Animal Behavior, 12th Edition***. Oxford University Press, New York.
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.

PRESENTATIONS

INVITED SEMINARS

2025 –	Department of Biological Sciences, Florida State University
2024 –	Department of Integrative Biology, University of Texas at Austin
2024	Department of Earth, Ocean and Ecological Sciences, University of Liverpool
2023	Department of Biological Sciences, Macquarie University
2023	Department of Biological Sciences, University of Tasmania
2023	Department of Biology, Texas A&M University
2023	Centre for Evolutionary Biology, School of Biological Sciences, University of Western Australia
2023	Department of Ecology and Evolutionary Biology, Princeton University
2023	University Seminar in the Integrative Study of Animal Behavior, Columbia University
2022	Department of Neurobiology and Behavior, Cornell University (*Graduate Student Invited Speaker*)
2022	Biology Department, Queens College
2021	Biology Department, Queen's University
2021	International Remote Seminar on Frontiers in Social Evolution
2021	Department of Biological Sciences, North Dakota State University
2021	Center for Studies in Physics and Biology, Rockefeller University
2020	Long-Term Animal Research Seminar Series, Duke University
2020	City University of New York (CUNY) Neuroscience Collaborative, CUNY Graduate Center
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

2023 Plenary, Australasian Evolution Society, Adelaide
2023 Daniel Rubenstein's Festschrift, Princeton University
2023 Symposium, Ecology of Collective Behavior, Animal Behavior Society, Portland
2021 Symposium, The Evolution of Social Behaviour, University of Bern
2020 Keynote, Grand Challenges Symposium: Challenges of Scaling Research, Max Planck Institute
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

2020 National Academy of Sciences: Next Steps for Functional Genomics, Washington DC
2019 National Science Foundation: Reintegrating Biology, Atlanta
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

2022 Virtual Featured Class, Undergraduate Admissions Office, Columbia University
2021 Virtual Featured Class, Undergraduate Admissions Office, Columbia University
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)

2022 International Society for Behavioral Ecology, Stockholm
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

2024 Proceedings of the National Academy of Sciences USA, Guest Editor
2022 – 2024 Annual Review of Ecology, Evolution, and Systematics, Guest Editorial Committee
2021 – Science Advances, Associate Editor
2019 – 2022 Behavioral Ecology, Editorial Board
2014 – 2015 Current Opinion in Behavioral Sciences, Guest Editor
2014 – Frontiers in Ecology and Evolution, Social Evolution Section, Associate Editor
2014 – 2022 Frontiers in Ecology and Evolution, Behavioral and Evolutionary Ecology Section, Associate Editor
2013 – 2022 Frontiers in Ecology and Evolution, Behavioral and Evolutionary Ecology Section, Review Editor
2012 – 2019 F1000Research, Editorial Board
2011 – 2020 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 (120 JOURNALS)

African Journal of Ecology
Aging Research Reviews
The American Naturalist
Anarchist Studies
Animals
Animal Behaviour
Ann Rev Ecol, Evol, and Systematics
Ardea
Asian Bioethics Review
The Auk
Basic and Applied Social Psychology
Behavioral and Brain Sciences
Behavioral Ecology
Behavioral Ecology and Sociobiology
Behaviour
Biological Conservation
Biology Letters
Biological Journal of Linneaen Society
Biological Reviews
Biomedical Journal
Bird Conservation International
BMC Ecology
BMC Evolutionary Biology
British J Medicine and Medical Research
Cell Systems
Chemical Geology
Communications Biology
The Condor
Current Anthropology
Current Biology
Current Zoology
Diversity and Distribution
Ecography
Ecological Applications
Ecological Indicators
Ecological Modelling
Ecology
Ecology and Evolution
Ecology Letters
Ecosphere
eLife
Endangered Species Research
Emu
Environmental Epigenetics
Environmental Science & Technology
Estuaries and Coasts
Ethology
Evolution
Evolution Letters
Evolutionary Applications
Evolutionary Ecology
F1000 Research
Frontiers in Behav and Evol Ecology
Frontiers in Genetics

Frontiers in Psychology
Frontiers in Social Evolution
Frontiers in Zoology
Functional Ecology
General and Comparative Endocrinology
Genome Research
Geosciences
GigaScience
Global Change Biology
Global Ecology and Biogeography
Heredity
Hormones and Behavior
Ibis
Integrative Organismal Biology
iScience
Journal of Animal Ecology
Journal of Applied Entomology
Journal of Asia-Pacific Entomology
Journal of Avian Biology
Journal of Biogeography
Journal of Evolutionary Biology
Journal of Experimental Biology
Journal of Experimental Zoology Part A
Journal of Field Ornithology
The Journal of Neuroscience
Journal of Poultry Science
Journal of the Royal Society Interface
Journal of Wildlife Management
Journal of Zoo and Aquarium Research
Journal of Zoology
JSM Environmental Science & Ecology
Mitochondrial DNA Part B: Resources
Molecular Biology Reports
Molecular Ecology
Movement Ecology
Nature
Nature Communications
Nature Ecology & Evolution
Nature Education Knowledge
Naturwissenschaften
Oecologia
Oikos
The Open Evolution Journal
PCI Evolutionary Biology
PeerJ
Philosophical Transactions Royal Soc B
Physiological and Biochemical Zoology
PLOS Biology
PLOS ONE
PNAS
PNAS Nexus
Proceedings Royal Society of London B
Quarterly Review of Biology
Restoration Ecology
Royal Society Open Science
Sensors
Science
Science Advances
The Science of Nature
Science of the Total Environment
Scientific Reports
Southwestern Naturalist
Trends in Ecology & Evolution
Trends in Parasitology
The Wilson Journal of Ornithology
Zoological Studies

BOOKS

Cambridge University Press
Elsevier Press
McGraw Hill
Sinauer Associates, Inc.
Springer
Tropical Herping
The University of Chicago Press

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 Global Scholars Program
Columbia President's Global Innovation Fund
Columbia Provost's Teaching & Learning Grants
Columbia Research Initiatives in Science & Engineering
Columbia Science Research Fellows Program
Columbia Internal NSF PIRE
Columbia Internal Packard Fellowships in Science and Engineering
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
Austrian Science Fund
Chilean National Commission for Scientific and Technological Research
Cornell Center for the Environment
Columbia Research Initiatives in Science & Engineering
Columbia Internal Fulbright
Czech Science Foundation
Dutch Research Council
European Research Council

French National Research Agency
German Academic Exchange Service
German Research Foundation
Graduate Women in Science
Human Frontiers Science Program
Israeli Science Foundation
Louisiana Board of Regents
Marsden Fund, New Zealand
Max Planck Society, Germany
Natural Environmental Research Council, United Kingdom
National Geographic Society
National Institutes of Health, Biobehavioral and Behavioral Processes
National Research, Development and Innovation Office, Hungary
National Science Centre, Poland
Natural Sciences and Engineering Research Council of Canada
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
Royal Society, United Kingdom
Simons Foundation
Swiss National Science Foundation
United States - Israel Binational Science Foundation
UK Research and Innovation

SYNERGISTIC REVIEWING
Columbia Undergraduate Admissions Office

SELECTED PRESS COVERAGE

ABC News
AAAS Science Update Radio
American Scientist
The Atlantic
BBC Radio
California Academy Sciences
CNET
CNN
Columbia College Annual Report
Columbia College Today
Columbia Magazine
Cornell Chronicle
Current Biology
Daily Mail
Dartmouth News
Discovery News
The Economist
ESPN Outside the Lines
F1000Prime
German Public Radio
The Guardian
Huffington Post
HHMI Bulletin
Miami Herald
MSNBC
National Geographic
National Public Radio (NPR)
Nature
Nature Abstractions
Nature News
Nature Podcast
Nature Science Update
Nautilus
Newsweek
New Scientist
NPR Radio
New York Post
The New York Times
The Onion
San Diego Tribune
Science 360
Science Perspectives
ScienceNOW
Science News
Scientific American
Smithsonian Magazine
Sydney Morning Herald
The Science Times
The Scientist
Thomson Reuters
Trends in Ecology & Evolution
Today
US News & World Report
The Washington Post
The Weather Channel
Wired Magazine
Yahoo News

TEACHING EXPERIENCE

INSTRUCTOR

2021	Plasticity in a Changing World, Columbia University
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 – 2020 (8x)	Frontiers of Science (Core Curriculum), Columbia University
2014	Social Evolution and Behavior, Rockefeller University
2013 – 2023 (7x)	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 – (3x)	Tropical Biology (Kenya Field Course), Columbia University
2010 – 2014 (3x)	Thesis Development, Columbia University
2010 – 2021 (4x)	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

MENTORING

FACULTY

2019 –	Laura Duvall (Columbia University)
2016 –	Andres Bendesky (Columbia University)
2023 – 2024	Gerald Carter (The Ohio State University)
2017 – 2024	Deren Eaton (Columbia University)

POSTDOC

2024 –	Frane Babarović (Marie Skłodowska-Curie Fellowship)
2023 –	Irene Garcia Ruiz (Swiss National Science Foundation Early Postdoc.Mobility Fellowship)
2022 –	Stefanie Siller Wilks (Columbia Frontiers of Science Fellowship)
2021 – 2023	Patrick Kennedy (Marie Skłodowska-Curie Fellowship & Simons Foundation Society Fellowship) *Current Position: Lecturer (Assistant Professor), University of Bristol*
2019 – 2021	Renata Mazzei (Swiss National Science Foundation Early Postdoc.Mobility Fellowship) *Current Position: Postdoctoral Associate, Université du Québec à Trois-Rivières*
2017 – 2020	Shana Caro (Simons Foundation Society Fellowship) *Current Position: Assistant Professor, Adelphi University*
2016 – 2019	Solomon Chak (Life Sciences Research Foundation Fellowship from Simons Foundation) *Current Position: Assistant Professor, Denison University*
2015 – 2018	Rafael Maia (Simons Foundation Society Fellowship) *Current Position: Machine Learning Engineer, Apple Inc.*
2014 – 2017	Katherine Brooks (Columbia Frontiers of Science Fellowship) *Current Position: Collection Analysis Librarian, Columbia University*
2015 – 2016	Stephen Harris (Columbia Frontiers of Science Fellowship) *Current Position: Assistant Professor, SUNY Purchase*
2009 – 2012	Melissa Mark (NSF Minority Postdoctoral Research Fellowship) *Current Position: Director of Conservation Programming, University of Washington*

PH.D.

2029 – Katelyn Sanko (NSF Graduate Research Fellowship Honorable Mention)

2024 Alexis Earl (NSF Graduate Research Fellowship Honorable Mention)
Current Position: NSF Postdoctoral Fellow, Cornell University

2022 Stefanie Siller (NSF Graduate Research Fellowship)
Current Position: Frontiers of Science Fellow and Lecturer in Discipline, Columbia University

2022 Shailee Shah
Current Position: NSF Postdoctoral Fellow, Cornell University

2021 Yi-Ru Cheng
Current Position: Postdoctoral Associate, Academia Sinica

2020 Jay Falk (NSF Graduate Research Fellowship) (at Cornell University, co-advised with M. Webster)
Current Position: NSF Postdoctoral Fellow, University of Colorado at Boulder

2017 Sarah Guindre-Parker (NSERC Postgraduate Scholarship)
Current Position: Assistant Professor, Kennesaw State University

M.A.

2022 Jerry Shuzhe Guan
Current Position: Ph.D. student, Harvard University

2021 Catherine Yung-Yi Lan
Current Position: M.D. student, Poznań University of Medical Sciences

2017 Eleanor Diamant (NSF Graduate Research Fellowship Honorable Mention)
Current Position: Postdoctoral Fellow, Ben-Gurion University (Ph.D. UCLA)

2017 Yuki Haba
Current Position: Postdoctoral Associate, Columbia University (Ph.D. Princeton University)

2017 Alyxandra Pikus
Current Position: Senior Program Manager, Oxbridge Academic Programs

2015 Natalie Hofmeister
Current Position: Research Fellow, Michigan Society of Fellows (Ph.D. Cornell University)

2013 Rebecca Kelley (NSF Graduate Research Fellowship Honorable Mention, 2x)
Current Position: Data Scientist, Meta (Ph.D. New Mexico State University)

2012 Kathleen Apakupakul
Current Position: Research Associate, Institute for Conservation Medicine, Saint Louis Zoo

2012 James Kealey
Current Position: Science Teacher, Richmond High School, Richmond CA

2011 Sara Keen (NSF Graduate Research Fellowship Honorable Mention, 2x)
Current Position: Senior Research Scientist, Earth Species Project (Ph.D. Cornell University)

UNDERGRADUATE THESES

2020 Arden Berlinger (Science Research Fellows Program)
Current Position: Ph.D. Student, University of Cambridge

2015 Laura Booth
Current Position: Tennessee Valley Biologist, National Park Service

2015 Hannah Skolnik (Amgen Scholars Program)
Current Position: Resident Veterinarian, University of San Francisco (D.V.M. University California, Davis)

2014 Lucia Weinman
Current Position: Postdoctoral Scholar, University of California, Davis (*Ph.D. Rutgers University)*

2012 Caitlin Dean
Current Position: *IP Litigator, Kirkland & Ellis* (*J.D. University of Michigan)*

2012 Julia Pilowsky (NSF Graduate Research Fellowship for graduate work)
Current Position: Postdoctoral Scientist, Cary Institute (M.A. Tufts Univ, Ph.D. Univ Copenhagen)

2012 Lea Pollack (Summer Undergraduate Research Fellows Program)
Current Position: Postdoctoral Fellow, University of Minnesota, (Ph.D. Univ of California, Davis)

2011 Jeremy Law
Current Position: Senior Principal Scientist, Hazen and Sawyer (M.A. Columbia University)

UNDERGRADUATE INTERNS

2022	Eriifeoluwa Adelusimo (sTEAM Fellows Program)
2022	Yutian Lin (sTEAM Fellows Program)
2022	Ugochinyere Ndukwe (sTEAM Fellows Program)
2022	Riley Smith (sTEAM Fellows Program)
2022	Jacob Whitson (sTEAM Fellows Program)
2022	Nicolas Beltran (sTEAM Fellows Program)
2022	Sarah Marazzi-Sassoon
2021	Debbie Leung
2021	Victor Castanho
2021	Tatum McConnell
2021	Faith Ajayi (Rabi Scholars Program)
2021	One Jae Lee
2020	Shoshana Sernik
2020	Sophia Kislik
2020	Christian Eggers
2019	Joseph Knee
2019	Kaiulani Sakaguchi
2019	Jake Arlow
2018	Francsesca 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	Shane Fallon
2015	Stefanie Siller

HIGH SCHOOL INTERNS

2018	Livia Marchese (Briarcliff High School)
2018	Hank Marriott (Ethical Culture Fieldston School)
2017 – 2019	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 Grygiercyzk (Valley Stream South High School Independent Science Research Program)
2011 – 2013	Gillian Carling (Bronx High School of Science Biological and Physical Research Mentorship Program)

VISITORS

2019	Yuqing Chen, University of Chinese Academy of Sciences
2018 – 2020	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 COMMITTEES (CHAIR)

2027 – William Foster, Ph.D., Neurobiology and Behavior (Major Advisor: Ishmail Abdus-Saboor)
2026 – Wyatt Toure, Ph.D., E3B Columbia University (Major Advisor: Andres Bendesky)
2025 – Elissa Sorojsrisom, Ph.D., E3B Columbia University (Major Advisors: Deren Eaton and Barbara Ambrose)
2023 Natalie Niepoth, Ph.D., E3B Columbia University (Major Advisor: Andres Bendesky)
2023 Rie Kaneko, M.A. E3B Columbia University (Major Advisor: Peter Balsam)
2021 Hiroki Tomida, M.A. E3B Columbia University (Major Advisor: Andres Bendesky)
2019 Jacqueline Barry, M.A., ABD, E3B Columbia University (Major Advisor: 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)

GRADUATE ORAL EXAMINATION COMMITTEES

2024 Vicens Vila-Coury (Major Advisor: Brian Smith and Andres Bendesky)
2022 Jared Meek (Major Advisor: Deren Eaton)
2020 Amanda Johnston (Major Advisor: Marina Cords)
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

2020 Martin Hing, University of Wollongong (Major Advisor: Marian Wong)
2017 David Seager, University of Exeter, Penryn (Major Advisor: Michael Cant)

SYNERGISTIC ACTIVITIES

UNIVERSITY SERVICE

2024 – Member, The University Seminars Executive Committee
2022 – Member, School of Professional Studies Executive Committee of the Faculty
2021 Member, Arts & Sciences Hiring Exemptions Committee
2020 – 2021 Co-Chair, PPC Subcommittee on Faculty Structure and Composition in the Arts & Sciences
2020 – 2021 Member, Faculty Budget Subcommittee on Undergraduate Teaching, Arts & Sciences
2020 Columbia Research Initiatives in Science & Engineering, Office of Research Initiatives
2020 Member, PPC Faculty Hiring Subcommittee, Arts & Sciences
2020 Member, Global Scholars Prgrm Com, Columbia Global Centers & Office Undergrad Global Engagement
2020 Chair, PPC Classrooms Subcommittee, Arts & Sciences
2020 External Member, Promotion and Tenure Committee, Arts & Sciences
2019 – 2020 Chair, PPC Childcare Subcommittee, Arts & Sciences
2019 – 2022 Elected Member, Arts & Sciences Policy and Planning Committee (PPC)
2019 – 2021 Member, Faculty Review Committee for Provost's Teaching & Learning Grants
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 – 2019 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, Office of Res Initiatives
2014 – Member, Faculty Steering Committee, Columbia Global Centers | Nairobi
2014 – 2016 Member, Joint Arts & Sciences and Zuckerman Mind, Brain, Behavior Initiative Faculty Search Committee
2014 Faculty Mentor, Presidential Global Fellowship Program, Office of Global Programs
2014 Founding Member, Junior Faculty Advisory Board, Arts & Sciences
2014 Member, NSF Advisory Committee, Office of Research Initiatives
2014 Master Class Leader, Science Invitational, Admissions Office
2013 Panelist, History of Neuroscience Reading Group, Heyman Center for the Humanities
2013 Faculty Mentor, Amgen Scholars Program
2012 – 2023 Director, Program in Tropical Biology and Sustainability
2012 Panelist, Psychology Department Graduate Student Development Panel
2011 – Department Liaison, Science Scholars Experience, Admissions Office
2011 – Member, Science Faculty Admissions Committee, Admissions Office
2011 Panelist, Columbia Neuroscience Society Annual Research Symposium
2011 Member, Fulbright Campus Committee, Office of Research Initiatives
2011 Panelist, Neuroscience and Behavior Graduate Student Recruitment Panel
2011 Member, Provost's Review Committee of the Guidelines for Laboratory Design Criteria
2010 – 2014 Co-Chair, The University Seminar in Population Biology, University Seminars
2010 – 2020 (11x) Guest Lecturer, Science Research Fellows Seminar, Columbia College

DEPARTMENTAL SERVICE

2024 – Member, E3B Curriculum Committee
2023 – Director of Graduate Studies, E3B
2023 – 2024 Chair, E3B Curriculum Committee
2023 – 2024 Member, E3B Faculty Search Committee
2021 – 2022 Chair, E3B Faculty Search Committee
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

2022	Offspring Films (superb starlings)
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

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ADVISORS

Postdoc	Roy Caldwell and Eileen Lacey, University of California, Berkeley
Ph.D.	Paul Sherman and Stephen Emlen, Cornell University
A.B.	Richard Holmes and C. Page Chamberlain, Dartmouth College