

DUSTIN R. RUBENSTEIN

*Thomas Hunt Morgan Professor of Conservation Biology
Executive Director, National Synthesis Center for Organismal Resilience*

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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
- artificial intelligence, machine learning, computer vision, sound analysis, color evolution, phenotyping

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

2026 – Executive Director, National Synthesis Center for Organismal Resilience (NSCORE)
2025 – Thomas Hunt Morgan Professor of Conservation Biology, Columbia University
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

AFFILIATIONS

2026 – Sigma Xi Distinguished Lecturer
2021 – Affiliate Member, Data Science Institute, Columbia University
2021 – Affiliate Scientist, Wildlife Research Training Institute, Kenya
2018 – Affiliate Member, Zuckerman Mind Brain Behavior Institute, Columbia University
2014 – Founding Chair, The University Seminar in the Integrative Study of Animal Behavior, Columbia University
2011 – Faculty Mentor, Program in Neurobiology and Behavior, Columbia University
2010 – Research Associate, Division of Vertebrate Zoology, American Museum of Natural History
2001 – Affiliate Scientist, Mpala Research Centre

PREVIOUS

2024 – 2025 Core Group Member, Biology & Neuroscience and Autism Science, Simons Foundation
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
2015 – 2020 Affiliate Faculty, Center for Integrative Animal Behavior, Columbia University
2015 – 2020 Affiliate Faculty, Initiative on Extreme Weather and Climate, Columbia University
2018 – 2020 Founding Co-Director, sTEAM Fellows Program, Columbia University
2001 – 2017 Affiliate Scientist, Ornithology Section, National Museums of Kenya
2014 – 2021 Affiliate Scientist, Kenya Wildlife Service
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

2026	Fellow, Animal Behavior Society
2026	Natural Sciences Commitment Service Award, Columbia University
2025	Sigma Xi Distinguished Lecturer
2025	Thomas Hunt Morgan Endowed Professorship, Columbia University
2024	Provost's Senior Faculty Teaching Scholar, Columbia University
2021	Fellow, American Association for the Advancement of Science
2020	Best of Trends 2019: Best Review in <i>Trends in Ecology & Evolution</i>
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, 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**

2025	Visiting Researcher Fellowship, Macquarie University
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

2026 – 2031	National Science Foundation, IOS/DBI Synthesis Center (PI with multiple Co-PIs)
2026 – 2027	National Science Foundation, DEB Evolutionary Processes (Workshop)
2026 – 2027	Propelling Hope Research Fund, Columbia University
2025 – 2028	National Science Foundation, DEB Evolutionary Processes (PI with P Kennedy [NERC-UK])
2025 – 2026	Research Stabilization Fund, Columbia University
2024 – 2025	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 Conference Grant, 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 Conference Grant, 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

BOOKS

- 4. Kennedy P and **Rubenstein DR**. Target 2028. *Kin Selection: An Introduction*. Princeton University Press, Princeton
- 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.

IN PREPARATION

- 161. **Rubenstein DR** and S-F Shen. Behavioral biology in the age of AI.
- 160. Chan S-F, **DR Rubenstein**, C-Y Chang, M Liu, C-F Chang, S-P Huang, Y-H Lin, Y-Y Chen, Y-C Li, S-C Chan and S-F Shen. Climate and interspecific competition jointly set range limits at a demographic bottleneck.
- 159. Shen S-F and **DR Rubenstein**. The spatial geometry of cooperation in fluctuating environments.
- 158. Lake J, MJ Whiting, **DR Rubenstein**, J Solomon, D Hoops, V Russell, O Young and GM While. Inhibition of infanticide via appetite-related genes may underpin family-living in a social skink.
- 157. Garcia-Ruiz I, P Kennedy and **DR Rubenstein**. Environmental harshness promotes reproductive sharing.
- 156. Wen Y-H, G-S Mai, **DR Rubenstein**, S Wu, M Liu and S-F Shen. Core trait stability drives morphological innovation in Lepidoptera.
- 155. Chen B-F, Y-C Liu, C-F Chang, P Wang, Y Haba, H Chen, S-P Huang, H-Y Tsai, Y-M Fan, T-N Yuan, H-H Lee, H-M Ke, C-YI Lin, IJ Tsai, **DR Rubenstein** and S-F Shen. An ancient supergene couples day length to reproductive ecotypes in a burying beetle.
- 154. Earl AD, GG Carter and **DR Rubenstein**. Drivers of social role switching across individual lifetimes within an avian cooperatively breeding society.
- 153. Earl AD and **DR Rubenstein**. Genetic and nongenetic contributions to individual variation in social roles in an avian cooperative breeder.
- 152. 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.

SUBMITTED

- 151. Chen Y-Y, G-S Mai, **DR Rubenstein**, C-H Wei and S-F Shen. MorphQ: a self-supervised framework for reproducible quantification and visualization of organismal morphology from images.
- 150. Firman RC, J Jeong, D Weisz, O Dudchenko, EL Aiden, J Solomon and **DR Rubenstein**. Genomic signatures of Pleistocene climatic fluctuation in Australian pebble mound mice.
- 149. Shen S-F and **DR Rubenstein**. The ecology and evolution of cooperative breeding: linking dual benefits theory and inclusive fitness theory.
- 148. Chang C-F, S-C Chan, Y- Liu, B-F Chen, J Mai, Y-H Li, M Liu, **DR Rubenstein** and S-F Shen. The emergence of non-kin cooperation under ecological pressure.
- 147. Mai G-S, Y-H Wen, Rolland A, **DR Rubenstein**, S Wu, J-C Lin, M Liu, C-K Tang and S-F Shen. Generative AI reveals how natural and sexual selection vary across an environmental gradient to shape sexual dimorphism in moths.
- 146. Lake J, GM While, P Lange, AG Ophir, **DR Rubenstein** and MJ Whiting. The effect of vasotocin on social recognition in juvenile blue tongue skinks.
- 145. Firman RC and **DR Rubenstein**. The thermal benefits of a mound-burrow system in a semi-desert Australian landscape: will this pebble fortress provide refuge from climate change?

144. Kua K-L, G-S Mai, **DR Rubenstein**, P-F Lee and S-F Shen. SEAM-SDM: a modular deep-learning species distribution model.
143. Li Y-C, **DR Rubenstein**, S-C Lin, G-S Mai, M Liu and S-F Shen. Temperature dependence of collective behavior varies with coordination complexity in social insects.
142. Kennedy P, M Tindo, PS Masse, S Kapmegne, R Tcheutchoua, M Keeping, C Pirk, AR Radford and **DR Rubenstein**. Climate shapes cooperation in Africa's continent-spanning wasps.
141. Siller Wilks SJ, DF Westneat, BJ Heidinger, J Solomon and **DR Rubenstein**. Developmental patterns of DNA methylation predict sex-specific long-term fitness in wild house sparrows (*Passer domesticus*).
140. Mai J, C-H Wei, J-P Huang, Y-H Wen, J-C Lin, S Wu, M Liu, **DR Rubenstein** and S-F Shen. The rise of morphological variation in moths and butterflies.
139. **DR Rubenstein** and Taborsky M. A novel approach to the study of social complexity.

RESEARCH ARTICLES

138. **Rubenstein DR**. 2027. Avian mating and social systems. In *The Cornell Lab of Ornithology Handbook of Bird Biology, 4th Edition* (Lovette IJ and JA Walsh, eds.). Princeton University Press, Princeton, In press.
137. Shen S-F, M Liu and **DR Rubenstein**. 2026. The evolution of group size and kin structure in complex societies. *Royal Society Open Science* In press.
136. Lake J, GM While, AG Ophir, **DR Rubenstein**, L Witzak Oldfather and MJ Whiting. 2026. Vasotocin influences mother-offspring associations in a facultatively family-living lizard. *Behavioral Ecology* 37:arag082.
135. Lake J, MJ Whiting, GM While, D Kabelik, **DR Rubenstein** and D Hoops. 2026. The neural distribution of vasotocin, oxytocin, dopamine and serotonin in two Australian skinks with contrasting social lives. *The Journal of Comparative Neurology* 534:e70184.
134. Shen S-F and **DR Rubenstein**. 2026. Climate, cooperation and social evolution. In *Encyclopedia of Animal Behavior, 3rd Edition* (Choe J, ed.). Elsevier, New York, pp. 477–487.
133. **Rubenstein DR** and J Solomon. 2026. Endocrine and epigenetic flexibility in an African starling. *Philosophical Transactions of the Royal Society B* 381:20250027.
132. Falk JJ, MS Webster and **DR Rubenstein**. 2026. Hypotheses for the adaptive maintenance of phenotypic polymorphisms. *Ecology and Evolution* 16:e73493.
131. Garcia-Ruiz I and **DR Rubenstein**. 2026. Fitness drivers of division of labour in vertebrates. *eLife* 14:RP105501.
130. Chen B-F, Y-C Li, **DR Rubenstein**, A Rolland, S-J Sun, M Liu, D-P Chen and S-F Shen. 2026. Interspecific competition reduces energy expenditure by decreasing intragroup conflict in a social burying beetle. *Ecology Letters* 28:e70300.
129. Ben Mocha Y, M Woith, S Scemama de Gialluly, L Bruscagnin, N Kestel, S Markman, SM Drobnjak, V Baglione, J Boersma, L Cousseau, R Covas, GH Braga de Miranda, CJ Dey, C Doutrelant, R Gula, R Heinsohn, O Keynan, SA Kingma, AV Leitao, J Li, L Makuya, K-M Middleton, S Pruett-Jones, AN Radford, C Restrepo, **DR Rubenstein**, C Schradin, J Theuerkauf, MH Warrington, DA Williams, IA Woxvold and M Griesser. 2025. An integrative, peer-reviewed and open-source Cooperative-Breeding Database (Co-BreedD). *Journal of Animal Ecology* 94:2597–2614.
128. Greives TJ, J Solomon, S Siller Wilks, H Galante, KB Needham, J Kittilson and **DR Rubenstein**. 2025. A potential role for epigenetic mechanisms enabling appropriate seasonal transitions of liver yolk-precursor production. *Journal of Avian Biology* 2025:e03470.
127. Firman RC, RE Buckley, W De Angelis and **DR Rubenstein**. 2025. A mouse that rocks: variation in western pebble mouse (*Pseudomys chapmani*) activity through camera trapping reveals that mound assessment criteria are inaccurate. *Wildlife Research* 5:WR24209.
126. Chen H, **DR Rubenstein**, G-S Mai, C-F Chang and S-F Shen. 2025. Circadian activity predicts breeding phenology in the Asian burying beetle *Nicrophorus nepalensis*. *Royal Society Open Science* 12:250624.
125. Earl AD, GG Carter, AG Berlinger, E Korir, SS Shah, WN Watetu and **DR Rubenstein**. 2025. A cryptic role for reciprocal helping in a cooperatively breeding bird. *Nature* 642:381–388.
124. Chan S-F, M Liu, **DR Rubenstein**, Y-A Chung, W Lin, L-Y Liao and S-F Shen. 2025. Assessment across life stages reveals superior habitat suitability in reintroduced historical habitats for an endangered salmon species. *Journal of Applied Ecology* 62:1378–1391.
123. Shah SS and **DR Rubenstein**. 2025. Intraspecific variation in the social structure of a cooperative breeder arises due to fine-scale environmental conditions governing directional dispersal. *Journal of Animal Ecology* 94:356–367.
122. Chan S-F, **DR Rubenstein**, T-W Wang, Y-Y Chen, I-C Chen, D-Z Ni, W-K Shih and S-F Shen. 2025. Land-use changes influence climate resilience through altered population demography in a social insect. *Ecological Monographs* 95:e1638.
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* 15:1777–1788.
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**. 2024. Social behavior and animal societies. In *Encyclopedia of Biodiversity, 3rd Edition* (Scheiner S, ed.). Elsevier, New York, pp. 61-71.
 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 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 Chernomoretz, 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:e221221120.
 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 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 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 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 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 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 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.
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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.
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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.

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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.
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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.
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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.
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60. Maia R, **DR Rubenstein** and MD Shawkey. 2016. Selection, constraint and the evolution of coloration in African starlings. *Evolution* 70:1064-1079.
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58. Keen SC, CD Meliza, JA Pilowsky 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.
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51. Apakupakul K and **DR Rubenstein**. 2015. Bateman's principle is reversed in a cooperatively breeding bird. *Biology Letters* 11:20150034.
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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.
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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.
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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.
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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.

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17. **Rubenstein DR**. 2007. Territory quality drives intraspecific patterns in extrapair paternity. *Behavioral Ecology* 18:1058-1064.
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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 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.
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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.
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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

19. **Rubenstein DR**. 2026. The Evolution of Cetacean Societies (Book Review). *Animal Behaviour* 238:1.
18. **Rubenstein DR**. 2026. Birds of a feather flock together (Book Review). *Current Biology* 36:R116-R18.
17. **Rubenstein DR** and GG Carter. 2025. Superb starlings swap helper and breeder roles with kin and non-kin (Research Briefing). *Nature*.
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.

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

- | | |
|--------|---|
| 2026 – | Department of Biology, Bard College |
| 2026 – | Department of Biology, Chemistry, and Biochemistry, University of Mount Saint Vincent |
| 2026 | Department of Ecology and Conservation Biology, Texas A&M University |
| 2026 | Department of Ecology, Evolution and Environmental Biology, Columbia University |
| 2025 | Department of Biology, Dalhousie University |
| 2025 | Department of Biological Sciences, Florida State University |
| 2025 | Ecology and Evolution Group, Florida State University |
| 2025 | Department of Biological Sciences, Macquarie 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 (<i>Graduate Student Invited Speaker</i>) |
| 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

2026 – Arts & Sciences Speaker Series, Columbia University
 2026 Symposium, AI and Organismal Biology, Columbia University
 2026 Accelerate Symposium, Columbia University
 2026 Distinguished Lecture, Quinnipiac Chapter of Sigma Xi, Quinnipiac University
 2026 Keynote, Northeast Regional Sigma Xi, Western Connecticut State University
 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, Göttingen
 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

2025	Columbia AI Summit – Panel: From Chaos to Code: How AI Can Tame the Climate Crisis, Columbia Univ
2025	STEM in the Field: Teaching Beyond the Classroom – Panel Moderator, Columbia University
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)

2026	International Society for Behavioral Ecology, Torino
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

2026	AI and Organismal Biology, New York
2025	AI in Global Change Biology, New York
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	15 th 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

2025 – Frontiers in Ecology and Evolution, Evol Ecology of Social Behavior Section, Specialty Chief Editor
 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 – 2025 Frontiers in Ecology and Evolution, Evolutionary Ecology of Social Behavior 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 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 (125 JOURNALS)

African Journal of Ecology	Ecology	Journal of Biogeography
Aging Research Reviews	Ecology and Evolution	Journal of Evolutionary Biology
The American Naturalist	Ecology Letters	Journal of Experimental Biology
Anarchist Studies	Ecosphere	Journal of Experimental Zoology Part A
Animal Behaviour	eLife	Journal of Field Ornithology
Animal Biodiversity and Conservation	Endangered Species Research	The Journal of Neuroscience
Animal Genetics	Emu	Journal of Poultry Science
Animals	Environmental Epigenetics	Journal of the Royal Society Interface
Ann Rev Ecol, Evol, and Systematics	Environmental Science & Technology	Journal of Wildlife Management
Ardea	Estuaries and Coasts	Journal of Zoo and Aquarium Research
Asian Bioethics Review	Ethology	Journal of Zoology
The Auk	Evolution	JSM Environmental Science & Ecology
Basic and Applied Social Psychology	Evolution Letters	Mitochondrial DNA Part B: Resources
Behavioral and Brain Sciences	Evolutionary Applications	Molecular Biology Reports
Behavioral Ecology	Evolutionary Ecology	Molecular Ecology
Behavioral Ecology and Sociobiology	F1000 Research	Movement Ecology
Behaviour	Frontiers in Behav and Evol Ecology	Nature
Biological Conservation	Frontiers in Genetics	Nature Communications
Biology Letters	Frontiers in Psychology	Nature Ecology & Evolution
Biological Journal of Linnean Society	Frontiers in Social Evolution	Nature Education Knowledge
Biological Reviews	Frontiers in Zoology	Naturwissenschaften
Biomedical Journal	Functional Ecology	Oecologia
Bird Conservation International	General and Comparative Endocrinology	Oikos
BMC Ecology	Genome Research	The Open Evolution Journal
BMC Evolutionary Biology	Geosciences	PCI Evolutionary Biology
British J Medicine and Medical Research	GigaScience	PeerJ
Cell Systems	Global Change Biology	Philosophical Transactions Royal Soc B
Chemical Geology	Global Ecology and Biogeography	Physiological and Biochemical Zoology
Communications Biology	Heredity	PLOS Biology
The Condor	Hormones and Behavior	PLOS ONE
Current Anthropology	Ibis	PNAS
Current Biology	Integrative Organismal Biology	PNAS Nexus
Current Zoology	iScience	Proceedings Royal Society B
Diversity and Distribution	Journal of Animal Ecology	Quarterly Review of Biology
Ecography	Journal of Applied Animal Research	Restoration Ecology
Ecological Applications	Journal of Applied Entomology	Royal Society Open Science
Ecological Indicators	Journal of Asia-Pacific Entomology	Sensors
Ecological Modelling	Journal of Avian Biology	Science

Science Advances
The Science of Nature
Science of the Total Environment
Scientific Reports

Southwestern Naturalist
Taprobanica
Trends in Ecology & Evolution
Trends in Parasitology

The Wilson Journal of Ornithology
Zoological Research
Zoological Studies

BOOKS

Cambridge University Press
Elsevier Press
Johns Hopkins University 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
Branco Weiss Fellowship – Society in Science
Chilean National Commission for Scientific and Technological Research
Cornell Center for the Environment
Columbia Collaboratory
Columbia University Data Science Institute
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, Computer & Information Science & Engineering Directorate
 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 Science Foundation, LEAP
 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
 Smithsonian Institution
 Swiss National Science Foundation
 United States - Israel Binational Science Foundation
 UK Research and Innovation
 W.M. Keck Foundation

SYNERGISTIC REVIEWING

Columbia Undergraduate Admissions Office

SELECTED PRESS COVERAGE

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

TEACHING EXPERIENCE**INSTRUCTOR**

2026 – Experiential Introduction to AI and Ecology (led by The Ohio State University, with other schools)
 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 – (5x) 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**

2025 – 2026 Kira Delmore (Columbia University)
 2023 – 2024 Gerald Carter (The Ohio State University)
 2019 – 2026 Laura Duvall (Columbia University)
 2017 – 2024 Deren Eaton (Columbia University)
 2016 – 2025 Andres Bendesky (Columbia University)

POSTDOC

2024 – Frane Babarović (Marie Skłodowska-Curie Fellowship)
 2023 – 2025 Irene Garcia Ruiz (Swiss National Science Foundation Early Postdoc.Mobility Fellowship)
Current Position: Postdoctoral Fellow, Université de Neuchâtel
 2022 – 2025 Stefanie Siller Wilks (Columbia Frontiers of Science Fellowship)
Current Position: Columbia Frontiers of Science Lecturer
 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: International Institute for Sustainability, Rio de Janeiro
 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: Associate Professor, SUNY Purchase
 2009 – 2012 Melissa Mark (NSF Minority Postdoctoral Research Fellowship)
Current Position: Executive Director, Washington Research Conservation & Development Council

PH.D.

2031 – Khe-Lok Kua (Taiwan-Columbia Scholarship)
 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: Assistant Professor, Bard College (Ph.D. UCLA)
- 2017 Yuki Haba
Current Position: Leon Levy Scholar, Columbia University (Ph.D. Princeton University)
- 2017 Alyxandra Pikus
Current Position: Senior Program Manager, Oxbridge Academic Programs
- 2015 Natalie Hofmeister
Current Position: Assistant Professor, Miami University (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: Clinical Veterinarian, New York University (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

- 2025 Kah Sin Tang
- 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	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	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 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)

VISITORS

2019	Yuqing Chen, University of Chinese Academy of Sciences
2018 – 2020	Timothy Greives, 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

2030 –	Camille Brown, Ph.D., E3B Columbia University (Major Advisor: Andres Bendesky)
2029 –	Shasta Corvus, Ph.D., E3B Columbia University (Major Advisor: Kira Delmore)
2028 –	Rachel Urban, Ph.D., E3B Columbia University (Major Advisor: Kira Delmore)
2027 –	Yoricka Smolikova, Ph.D., Academia Sinica (Major Advisor: Sheng-Feng Shen)
2027 –	William Foster, Ph.D., Neurobiology and Behavior (Major Advisor: Ishmail Abdus-Saboor)
2027 –	Belinda Atkinson, M.A., University of Western Australia (Major Advisor: Renee Firman)
2026	Caroline Gaskin, M.A. E3B Columbia University (Major Advisor: Bekka Brodie)
2025	Jai Lake, Ph.D., Macquarie University (Major Advisor: Martin Whiting)
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

2026	Shasta Corvus (Major Advisor: Kira Delmore)
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 EXTERNAL EXAMINER

2025	Sam Walmsley, Dalhousie University (Major Advisor: Hal Whitehead)
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GRADUATE OUTSIDE DISSERTATION READER

2026	Gladys Kung'u, University of Salzburg (Major Advisor: Beate Apfelbeck)
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**

2026	Member, Decanal Dean Review Faculty Advisory Committee, Office of the Provost
2026	Member, AI Verticals Project, AI Cross-School Working Group
2025 –	Member, Working Group for Directors of Graduate Studies of Doctoral Programs, Arts & Sciences
2024 –	Member, The University Seminars Executive Committee
2024 – 2025	Provost Senior Faculty Teaching Scholar Program, Provost Office & Center for Teaching and Learning
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 – 2024	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 – 2024 (12x)	Guest Lecturer, Science Research Fellows Seminar, Columbia College

DEPARTMENTAL SERVICE

2025 – 2026	Member, E3B Faculty Search Committee
2024 – 2026	Chair, E3B Space Committee
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
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PROFESSIONAL SERVICE

2026 – 2028	Sigma Xi Distinguished Lecturer
2026	Judge, Quinipiac Chapter of Sigma Xi Annual Student Conference
2026	Judge, Sigma Xi Northeastern Research Conference
2013 – 2014	Local Committee, 15 th 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)
2014	PBS, Animal Homes (superb starlings)
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 –	Advisor, 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

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