

SHANA M CARO

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Department of Biology, Adelphi University

PROFESSIONAL APPOINTMENTS

2022-present	Assistant Professor Biology Department	Adelphi University, NY
2020-22	Stengl-Wyer Postdoctoral Scholar Integrative Biology Department PIs: Hans Hofmann and Mark Kirkpatrick, Funding: UT Austin, Stengl-Wyer Endowment	University of Texas at Austin, TX
2017-20	Simons Foundation Postdoctoral Fellow Ecology, Evolution & Environmental Biology Department PI: Dustin Rubenstein, Funding: Simons Foundation, Society of Fellows	Columbia University, NY

EDUCATION

2013-17	DPhil, Zoology PIs: Ashleigh Griffin and Stu West Thesis: Social and environmental factors in the evolution of signaling Awards: Zoological Society of London's Thomas Henry Huxley and Marsh Award (top zoology PhD thesis in UK), Funding: Wageningen University Talent Programme, with Camilla Hinde	University of Oxford, UK
2007-11	BA, Human Evolutionary Biology PI: Zarin Machanda Honors Thesis: Benefits of social play in <i>Pan troglodytes</i> Awards: <i>Magna cum laude</i> ; Highest honors in field; Certificate in Mind, Brain, and Behavior; Howell Prize for best thesis in department	Harvard University, MA

GRANTS

2020-23	Stengl-Wyer Fellowship, UT Austin	\$292,000
2017-20	Junior Fellowship, Simons Foundation Society of Fellows	\$388,285
2017	Wageningen Talent Programme, Wageningen University	€36,800

PUBLICATIONS

Caro, S.M., Wu, K*. & Hofmann, H. *In review*. Sex differences in parental response to offspring begging are associated with pair bond strength across birds. Preprint doi: 10.1101-2021.10.14.464423

*Undergraduate coauthor

Caro, S.M., Velasco, A.C *, van Mastrigt, T.*, van Oers, K., Griffin, A.S., West, S.A., & Hinde, C.A. *In revision*. Parental control: ecology drives plasticity in parental response to offspring signals. Preprint doi: 10.1101-2021.11.18.464426

* Masters coauthors

Levin, S. R., **Caro, S. M.**, Griffin, A. S. & West, S. A. 2019. Honest signaling and the double counting of inclusive fitness. *Evolution Letters* 3, 428-433, doi: 10.1002-evl3.138

Wild, G.,* **Caro, S. M.***, & West, S. A. 2017. Signaling about information that is neither cryptic nor private. *Journal of Evolutionary Biology* 30, 806-813, doi: 10.1111-jeb.13049

*Joint first authors

Caro, S. M., Griffin, A. S., Hinde, C. A. & West, S. A. 2016. Unpredictable environments lead to the evolution of parental neglect in birds. *Nature Communications* 7, 1–10, doi:10.1038-ncomms10985

- Covered by Nature News & Views: “Animal behavior: Some begging is actually bragging”, Doug W. Mock, doi:10.1038-nature17317
- Covered by 17 news outlets, including Science News, El País, CBC, La Repubblica and International Business Times

Caro, S. M., West, S. A. & Griffin, A. S. 2016. Sibling conflict and dishonest signalling in birds. *Proceedings of the National Academy of Sciences of the United States of America* 113, 13803–13808, doi: 10.1073-pnas.1606378113

- Covered by *PNAS* commentary: “Baby birds do not always tell the truth”, Matt Dugas, doi: 10.1073-pnas.1616640113
- Covered by 5 popular science news outlets, including Tech Times, Science Daily and EurekAlert

AWARDS AND SMALL GRANTS

2023	Professional Development Award, Society for Integrative and Comparative Biology	\$500
2022	International Society of Behavioral Ecology Travel award	\$1,100
2021	Texas Ecological Laboratory Grant	\$2,600
2018	Thomas Henry Huxley and Marsh Award, Zoological Society of London	£1,000
2017	Travel funding from American Genetic Association for ESEB congress	\$900
2016	International Society for Behavioral Ecology Travel Bursary	\$500
2015-16	North Fund Scholarship, St John’s College, University of Oxford	£6,250
2014-16	Special Grant, St John’s College, University of Oxford	£1,700
2013-17	Research Training Support Grant, Zoology, University of Oxford	£1,500
2014	Best Transfer Talk in Zoology, University of Oxford	
2011	Howell Prize for best thesis in Human Evolutionary Biology, Harvard University	
2011	Conant Prize for outstanding work in science, Harvard University	
2010	African Studies Fellowship for thesis research, Harvard University	\$7,360
2010	Goelet Fund Research Grant for thesis research, Harvard University	\$1,890
2009	Arnold Arboretum Director’s Award, Harvard University	\$4,500

CONFERENCE & INVITED TALKS

2-2023	<i>The evolution of (dis)honesty and parental care(lessness)</i> , invited seminar for Hofstra University (Hempstead, USA)
1-2023	<i>Into the wild: How real-world complexity and fitness consequences shape decision-making in birds</i> , talk for SICB Society for Integrative and Comparative Biology Meeting (Austin, USA)
8-2022	<i>Sex differences in parental responses to offspring begging</i> , talk for ESEB European Society of Evolutionary Biology Congress (Prague, Czech Republic)
7-2022	<i>Sex differences in parental responses to offspring begging</i> , talk for ISBE International Society for Behavioral Ecology Congress (Stockholm, Sweden)
2-2022	<i>Why don’t parents listen? How parent-offspring and sexual conflicts influence how birds respond to begging</i> , invited seminar for Kennesaw State University (Georgia, USA)
10-2021	<i>The evolution of (dis)honesty and parental care(lessness)</i> , talk for Simons Foundation Alumni Symposium (New York, USA)
6-2021	<i>Sex differences in parent-offspring communication</i> , talk for Evolution (virtual)
4-2021	<i>The evolution and neural basis of parent-offspring communication</i> , invited seminar for Departments of Psychology and Biology, University of Washington (Seattle, USA)
8-2019	<i>Decision-making efficiency in wild great tits, with real world consequences</i> , poster for ESEB European Society for Evolutionary Biology Congress (Turku, Finland)
8-2019	<i>Decision-making efficiency in wild great tits, with real world consequences</i> , poster for ASAB Association for the Study of Animal Behavior (Konstanz, Germany)
8-2018	<i>Environmental variability and within-individual flexibility in parent-offspring communication</i> , poster for II Joint Congress on Evolutionary Biology (Montpellier, France)
9-2017	<i>Ecology and parent-offspring communication in birds</i> , seminar for Department of Ecology, Evolution and Environmental Biology, Columbia University (New York, USA)
7-2017	<i>Signalling about information which is already publicly available</i> , talk for Behaviour Conference (Estoril, Portugal)
8-2017	<i>Signalling about information which is already publicly available</i> , talk for ESEB European Society for Evolutionary Biology Congress (Groningen, The Netherlands)
3-2017	<i>Begging in different environments: understanding ecology’s impact on parent-offspring communication through comparative and experimental methods</i> , seminar for Behavioral Ecology Group, Wageningen University (Wageningen, The Netherlands)
11-2016	<i>Communication in family groups</i> , talk for Major Evolutionary Transitions Workshop, (Oxford, UK)
8-2016	<i>Sibling rivalry and divorce lead to evolution of dishonest offspring</i> , talk for ISBE International Society for Behavioral Ecology Congress (Exeter, UK)
6-2016	<i>Boastful offspring and neglectful parents: Ecology and parent-offspring communication in birds</i> , talk for Evolution Conference (Austin, USA)

- 11-2015 *Ecological drivers of the evolution of communication*, invited seminar for Department of Ecological Science, Vrije Universiteit (Amsterdam, The Netherlands)
- 8-2015 *Diversity in parent-offspring communication: shifting between signals and cues*, talk for ESEB European Society for Evolutionary Biology Congress (Lausanne, Switzerland)

TEACHING & MENTORING

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- 2022-now **Adelphi University** Garden City, NY
- *Instructor of Record:*
 - BIO 260 – Spring 2023: Animal Behavior
 - BIO 112 – Spring 2023: Biological Concepts and Methods 2 Lab
 - BIO 492 – Fall 2022: Advanced Research on Animal Behavior
 - BIO 111 – Fall 2022: Biological Concepts and Methods 1 Lab
 - *Mentor:* 2 undergraduates on comparative and behavioral projects
- 2020-22 **UT Austin** Texas, USA
- *InSTinCT REU program:* 1 undergraduate on behavioral project
 - 8-week paid summer research program for students from historically excluded backgrounds
 - *TEJAS program:* 1 undergraduate on behavioral project
 - Funding and professional development program for UT Austin undergraduates doing research
 - *Mentor:* 1 undergraduate on comparative project, 1 undergraduate on theory project
 - *Guest lecture:* OLLI Osher Lifelong Learning Institute, 1 lecture
- 2017-20 **Columbia University** New York, USA
- *Mentor:* 5 undergraduate and 1 high school research volunteers on video analysis
 - *Guest lecture:* Animal Behavior, 2 lectures
- 2017 **Wageningen University** Wageningen, NL
- *Mentor:* 2 graduate students, one now a PhD student and one now a master's student on field skills and science writing
 - *Examiner:* Master's internship report examiner
- 2014-16 **University of Oxford** Oxford, UK
- *Tutor (equivalent to TA), undergraduate courses:* Evolution; Social Evolution; Animal Behavior; Culture, Communication and Collective Behavior; Quantitative Methods (statistics and R coding)
 - *Tutor (equivalent to TA), graduate courses:* Mixed effects models in R
- 2015 **Stanford University, Bing Overseas Study Program** Oxford, UK
- *Course Head:* Animal Behavior, designed and executed entire curriculum and course for independent study abroad program

SCIENCE COMMUNICATION & PUBLIC OUTREACH

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- 2022-now **Garden City Bird Sanctuary** Garden City, USA
- Research coordinator and volunteer
- 2021-22 **Teach About Women** Austin, USA
- Consultant on STEM pedagogy guide
- 2019 **Taste of Science** New York, USA
- Presented research to the general public at an informal pub event as part of an ongoing outreach project
- 2018 **Mpala Live!** Mpala, Kenya
- Participated in a livestream panel of biologists about work at Mpala Research Centre
 - Shared my research and discussed conservation with local secondary school students
- 2017 **Cherwell School** Oxford, UK
- Visited a secondary school to introduce students to evolutionary biology
- 2016 **BBC Oxford radio** Oxford, UK
- Discussed my research on begging with David Prever in a live radio interview
- 2016 **Behind the Scenes at the Royal Society** London, UK
- Co-designed and co-ran an interactive exhibition—Meerkat groups from the primordial soup—explaining the major transitions in biology. This family event attracted 200 visitors
- 2016 **Science Museum Lates: The Next Big Thing** London, UK
- Co-designed and co-ran an interactive exhibition—Meerkat groups from the primordial soup—explaining the major transitions in biology. This free event was aimed at over-18s, and attracted 4000 visitors

SERVICE

- 2023 **Society for Integrative and Comparative Biology** Austin, USA
- *SICB Allies Program*: served as a visible colleague available to offer support to SICB 2023 meeting participants who are targets of, or who witness, inappropriate behavior
- 2022 **Texas Leadership Society** Austin, USA
- *Panelist and representative*: Shared research activities with UT Austin stakeholders and broader Texas community through a video and luncheon for 350 individuals
- 2016 **Major Evolutionary Transitions Workshop** Oxford, UK
- *Volunteer*: Helped organize conference events
- 2016 **Evolution Conference** Austin, USA
- *Volunteer*: Registered attendees for the annual conference
- 2014-16 **St John's College MCR Committee** Oxford, UK
- *Women's Officer (2014-15)*: Advocated for and provided pastoral support to women and gender minorities in the graduate community. Participated in committee meetings with college administration. Organised biweekly lunchtime speaker events, as well as an annual dinner for 200 people. Liaised with alumni regarding events
 - *LGBTQIA Officer (2015-16)*: Advocated for and provided pastoral support to LGBTQIA students in the graduate community. Participated in committee meetings with college administration. Organised social events
- 2009-11 **Harvard Advising Programs Office** Cambridge, USA
- *Peer Advising Fellow (PAF)*: Advised freshmen on academics, extracurricular activities, jobs and social issues

Reviewing

- I have served as a referee for *Nature*, *Nature Ecology and Evolution*, *American Naturalist*, *Proceedings of the National Academy of Sciences*, *Ecology & Evolution*, *Animal Behavior*, *Journal of Evolutionary Biology*, *Biology Letters*, *Evolution Letters*, *Behavioral Ecology and Sociobiology*, *Journal of Animal Ecology*, and *Behavioral Ecology*.