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Appointments and Education

2021 - 24 **NSF Postdoctoral Research Fellow** The Rockefeller University, University of Cincinnati
Postdoc co-mentors: Dr. Erich Jarvis, Dr. Elizabeth Hobson

2013 - 20 **PhD in Biology** New Mexico State University
PhD mentor: Dr. Timothy Wright

2007 - 11 **BS in Biology and Spanish** Haverford College
Senior thesis mentors: Dr. Robert Fairman, Dr. Roberto Castillo-Sandoval

Peer-reviewed Publications and Accepted Manuscripts

*former undergraduate mentee

8) Estien, C.O., O'Connell, C.L., Francis, X., **Smith-Vidaurre, G.**, Kluever, B.M., Hobson, E.A., and A. van der Marel. (2022). Temporary behavioral responses to playbacks by a pest parrot and implications for management. *Animal Behavior and Cognition*, 9(4), 363-384. [DOI](#).

7) **Smith-Vidaurre, G.**, Pérez-Marrufo, V.*, and T.F. Wright. (2021). Individual vocal signatures show reduced complexity following invasion. *Animal Behavior*, 179: 15 - 39. [DOI](#). Open-access [code](#) and [data](#).

6) **Smith-Vidaurre, G.**, Araya-Salas, M., and T.F. Wright. (2020). Individual signatures outweigh social group membership in contact calls of a communally nesting parrot. *Behavioral Ecology*, 31: 448-458. [DOI](#). Open-access [code](#) and [data](#).

5) Araya-Salas, M., **Smith-Vidaurre, G.**, González-Gómez, P., Mennill, D., and T.F. Wright. (2019). Social group signatures in hummingbird displays provide evidence of co-occurrence of vocal and visual learning. *Proceedings of the Royal Society B*, 286: 20190666. [DOI](#). Open-access [data](#).

4) Wright, T. F., Lewis, T. C., Lezama-López, M., **Smith-Vidaurre, G.**, and Dahlin, C. R. (2018). Yellow-naped Amazon (*Amazona auropalliata*) populations are markedly low and rapidly declining in Costa Rica and Nicaragua. *Bird Conservation International*, 29(2): 291-307. [DOI](#).

3) Araya-Salas, M., **Smith-Vidaurre, G.**, and M. Webster. (2017). Assessing the effect of sound file compression and background noise on measures of acoustic signal structure. *Bioacoustics* 28: 57-73. [DOI](#).

2) Hobson, E.A., **Smith-Vidaurre, G.**, and A. Salinas-Melgoza. (2017). History of nonnative Monk Parakeets in Mexico. *PLOS ONE* 12(9): e0184771. [DOI](#). Open-access [data](#).

1) Araya-Salas, M. and **Smith-Vidaurre, G.**. (2016). warbleR: an R package to streamline analysis of animal acoustic signals. *Methods in Ecology and Evolution* 8: 184-191. [DOI](#).

Selected Manuscripts in Review or in Preparation

*former undergraduate mentee

3) **Smith-Vidaurre, G.**, Pérez-Marrufo, V.*, Hobson, E.A., Salinas-Melgoza, A., and T.F. Wright. Individual identity information persists in learned parrot calls after invasion. *In review*. EcoEvoRxiv preprint DOI: 10.32942/osf.io/n79kc.

2) **Smith-Vidaurre, G.**, Molina-Medrano, T., Jarvis, E.D., and E.A. Hobson. Automated tracking of avian parental care behavior. *In prep*. MS available upon request.

1) **Smith-Vidaurre, G.**, and E.A. Hobson and E.D. Jarvis. An integrated perspective on learned vocal identity signaling. *In prep*. MS proposal available upon request.

Book Chapters

1) Russello, M.R., **Smith-Vidaurre, G.**, and T.F. Wright. Genetics of invasive parrot populations. *Naturalized parrots of the world: Distribution, ecology, and impacts of the world's most colorful colonizers*. Stephen Pruett-Jones (Ed). Princeton University Press, 2021.

Software

- 3) **Smith-Vidaurre, G.** Mosey: (Mo)vement (se)nsor utilit(y) functions for data processing and integration. Will be made available on GitHub: gsvidaurre/mosey. Functions available upon request.
- 2) Molina-Medrano, T., and **Smith-Vidaurre, G.** ParentalCareTracking: An automated system developed to track avian parental care behavior. Will be made available on GitHub: lastralab/ParentalCareTracking. Repository access available upon request.
- 1) Araya-Salas, M., **Smith-Vidaurre, G.**, and H. Zhong. 2015. warbleR: an R package to streamline bioacoustic analysis. URL: <http://cran.r-project.org/package=warbleR>.

Fellowships, Grants, and Research Funding (\$252,000 total)

NSF Broadening Participation Postdoctoral Research Fellowship (\$207,000)	2021 - 24
NMSU Whaley Fieldwork Award, Biology Department (\$2,000)	2017
Fulbright Study/Research Grant in Uruguay (\$14,000)	2016
<i>Funded 9 months in Uruguay for PhD with Dr. Timothy Wright and Fulbright mentor Dr. Enrique Lessa</i>	
Experiment.com crowdfunding with Dr. Kevin Burgio (\$4,000)	2016
American Ornithologists' Union Carnes Award (\$3,000)	2016
Private donation from Michael and Susan Achey (\$7,000)	2014
NMSU College of Arts and Sciences Graduate Tuition Fellowship (\$15,000)	2013 – 17

Honors and Awards

NMSU Outstanding Graduate Award, College of Arts and Sciences	2020
NMSU Biology Department Graduate Award for Excellence in Research	2019
NMSU Graduate School Merit-Based Enhancement Award	2016, 2019
NMSU Biology Department Graduate Award for Excellence in Teaching	2016
NMSU Biology Department Star, College of Arts and Sciences Award	2016
Nominee for Thomas J. Watson Fellowship, Haverford College	2011
Manuel J. and Elisa P. Asensio Prize for best senior thesis in Spanish	2011
<i>Presentation Awards:</i> NMSU Biosymposium Best Graduate Talk (2020), NMSU Biosymposium Best Graduate Poster (2015, 2018), NMSU Graduate Research and Arts Symposium (GRAS) Honorable Poster Mention (2015).	
<i>Travel and Diversity Awards:</i> Gordon Research Conference on Neural Mechanisms of Acoustic Communication (2022), Society for Integrative and Comparative Biology (SICB: 2016, 2019), Animal Behavior Society (2015, 2019), NMSU College of Arts and Sciences (2015, 2019), American Ornithologist's Society (AOS: 2018, 2020)	

Invited talks

Bridging Brains and Bioacoustics virtual seminar series	Nov 2022
<i>An integrated perspective on learned vocal identity signaling</i>	
Social Competency symposium, 59th Animal Behavior Society meeting	Jul 2022
<i>Social systems, cognition, and identity signaling can provide new insights into vocal communication</i>	
Allee Competition symposium, 58th Animal Behavior Society meeting	Aug 2021
<i>Resilience and sensitivity of learned vocalizations to the social environment</i>	
Integrated Behavioral Research Group seminar, EEB Department, Princeton University	Mar 2021
<i>Monk parakeet calls exhibit resilience and sensitivity to invasion</i>	
Coffee with Scientists talk	Nov 2020
Deptment of History and Philosophy of Science, University of Cambridge	
<i>Understanding urban history from an ecological perspective, with Fedorova, N. and Logan, C.J.</i>	
Departmental seminar, Department of Biological Sciences, University of Cincinnati	Oct 2020
<i>Learned calls of monk parakeets exhibit sensitivity and resilience to invasion</i>	

Naturalized parrots symposium at the North American Ornithological Conference Aug 2020
 Symposium title: *The global rise of naturalized parrots: status, lessons learned, and emerging issues*
 Symposium talk: *Genetics of invasive parrots: insights into origins, invasion patterns and adaptation* with Russello, M.A. and Wright, T.F.

Workshops and Working Groups

Attended Joint lab retreat to discuss collaborative projects on animal social behavior Aug 2021
 Organized by Dr. Elizabeth Hobson (University of Cincinnati) and Dr. Gerald Carter (the Ohio State University)

Attended NextProf Science, University of Michigan May 2020, 21

Attended Complex Networks Winter Workshop Jan 2021

Co-delivered workshop on bioacoustics in R 10 Apr 2018
Packages for streamlined bioacoustics analyses in R
 AOS annual meeting, Tucson, AZ with Dr. Marcelo Araya-Salas

Delivered workshop on bioacoustics in R 7 Aug 2017
warbleR: a package for streamlined bioacoustic analyses in R, 1st Ornithological Congress of the Americas, Puerto Iguazú, Argentina

Co-delivered workshop on bioacoustics in R 13-17 Jul 2017
Taller de bioacústica: análisis de sonidos animales en R
 Universidad Centroamericana, Managua, Nicaragua with Dr. Marcelo Araya-Salas

Attended *La Kretz Conservation Genomics Workshop*, UCLA 20-24 Mar 2016

Organized and delivered workshop session on R coding 08-09 Nov 2015
Biology Graduate Student Organization R workshop, NMSU Biology Department

Co-delivered workshop on bioacoustics in R 14-19 Jul 2015
Taller de bioacústica: análisis de sonidos animales en R y la aplicación en la biología de la conservación, Organization for Tropical Studies Palo Verde Research Station, Costa Rica with Dr. Marcelo Araya-Salas

Attended NIMBioS *Graduate Workshop on Current Issues in Statistical Ecology* 15-17 Apr 2015
 National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville

Selected Presentations

Smith-Vidaurre, G., Hobson, E.A., and E.D. Jarvis. Poster. Aug 2022
An integrated social and neural framework for the maintenance and evolution of socially learned identity signaling
 Gordon Research Conference: Neural Mechanisms of Acoustic Communication

Smith-Vidaurre, G., Pérez-Marrufo, V., and T.F. Wright. Talk. Jul 2020
Invasion influences the complexity of individual signatures in learned contact calls of a parrot
 Animal Behavior Society

Smith-Vidaurre, G., Araya-Salas, M., and T.F. Wright. Talk. Jul 2019
Social information differs among contact calls of three vocal learning species
 Animal Behavior Society

Smith-Vidaurre, G., Araya-Salas, M., and T.F. Wright. Poster. Jul 2019
Distinct social information in contact calls of three vocal learning species
 Songbird and Animal Communication regional Conference

Smith-Vidaurre, G., Araya-Salas, M., and T.F. Wright. Talk. Jan 2019
Monk parakeets exhibit low acoustic convergence across social scales in their native range
 Society for Integrative and Comparative Biology

Smith-Vidaurre, G., and T.F. Wright. Poster. Feb 2018
Mapping patterns of vocal variation in the native range of an invasive parrot

New Mexico State University Biosymposium, Department of Biology

Smith-Vidaurre, G., and T.F. Wright. Poster.

Apr 2018

Mapping patterns of vocal variation in the native range of an invasive parrot

American Ornithologists' Society

Hobson, E.A, **Smith-Vidaurre, G.**, and A. Salinas-Melgoza. Talk.

Aug 2017

History of nonnative Monk Parakeets in Mexico

Ornithological Congress of the Americas

Additional Research Positions

Graduate research assistant, The Ohio State University

Jan – Aug 2020

Assessing vocal variation over social scales and evidence of vocal learning in vampire bats with Dr. Gerry Carter

Graduate research assistant, Jornada Basin LTER

Jun 2018 – Dec 2019

Big Data approaches to assessing cyclical spatiotemporal disease occurrence with Dr. Heather Savoy and Dr. Debra Peters

Graduate research assistant, NMSU

21 May – Oct 2016

Evaluating quasispecies diversity in dengue virus strains with Dr. Kathryn Hanley

Sanger sequencing graduate assistant, NMSU Molecular Biology Sequencing facility

Spring 2016

Sequenced samples for researchers across different NMSU departments (Dr. C. Brad Shuster)

Avian field research technician, RI Dept of Environmental Management

Nov 2011 – Mar 2012

Management research with 3 native duck species in Kingston, RI

Mentoring Activities

Graduate students:

César Estien: Bioacoustics analysis in R with parrot vocalizations

2021

Cesar was a post-bacc researcher with Dr. Elizabeth Hobson (University of Cincinnati), and is a PhD student with Dr. Christopher Schell (University of California, Berkeley)

Julia Vrtilek: Bioacoustics analysis in R with bat vocalizations

2021 - 2022

Julia is a PhD student with Dr. Gerald Carter (the Ohio State University)

Undergraduate students:

Jasmine Brace: Data collection and analysis, scientific writing and presentations

2021

Jasmine was a NSF REU and Dutchess Community College student, and is an undergraduate student at Hawai'i Pacific University

Valeria Pérez-Marrufo: Data collection and analysis, scientific writing and presentations

2019 - 21

Valeria was an NMSU Maximizing Access to Research (MARC) student, and is a PhD student with Dr. Susan Parks (Syracuse University)

High school students:

Jumpstart Advocate for a high school student doing spring and summer research

Mar - Aug 2022

RockEDU Science Outreach, Rockefeller University

Peer mentoring:

Weaving the Future of Animal Behavior: Power of Peer mentoring, undergraduates

Jul 2022 - present

Postdoc co-mentor for a peer mentoring circle with undergraduate students in the Animal Behavior Society (ABS) Turner program

Weaving the Future of Animal Behavior: Power of Peer mentoring, ECRs

2021 - present

Biweekly peer mentoring circle with 8 peers who are postdocs or early-career faculty, organized by ABS and funded by the NSF

Women of Color in Ecology and Evolutionary Biology: Monthly 1:1 mentoring program

2021 - present

Participating as a mentee and mentor (2 mentees since 2021)

Women of Color in Ecology and Evolutionary Biology: Monthly peer mentoring 2022 - present
Monthly peer mentoring with 4 peers at similar career stages (members of WOCinEEB)

ABS conference mentor 03 - 06 Aug 2021
Mentoring sessions with students during 58th ABS annual meeting

Teaching Experience

Guest lecture for genetics course with Dr. Sara Lipshutz 04 Mar 2022
Epigenetic regulation of a specialized form of social learning, Department of Biology, Loyola University Chicago

Guest lecture for physiology course with Dr. Teri Orr 29 Sep 2021
Social functions and epigenetic regulation of a specialized form of social learning, Department of Biology, NMSU

Guest lecture for R course with Dr. Scott Ferrenberg 03 Apr 2019
PCA and Mantel tests, Department of Biology, NMSU

Guest seminar for ethology class with Dr. Bettina Tassino 20 Jun 2017
Más allá de los genes: La evolución y los cambios ambientales producidos por hombre, Facultad de Ciencias, la Universidad de la República, Uruguay

Teaching Assistant, NMSU Biology Department:

- BIOL 211: Cellular and Organismal Biology Lecture Spring 2018
- BIOL 309 and 350 (HHMI): Guided Biological Research Fall 2016, Spring and Fall 2015
- BIOL 211: Cellular and Organismal Biology Lab Fall 2013, Spring 2014

HHMI Graduate Assistant Fall 2015, Spring 2017
Designed active learning exercises on protein folding and hypothesis-testing, NMSU Biology Department

Substitute Teacher Fall 2012
Substitute teacher for middle and high school Spanish classes, Moses Brown School, Providence, RI

Teaching Assistant Fall 2010
TA for introductory Spanish class, Haverford College, Spanish Department

Professional Development

Pedagogical training 18 Jan - 03 Feb 2022
Launching Undergraduate Science Teaching Careers, virtual course

6 session course on undergraduate teaching and mentoring (Memorial Sloan Kettering Cancer Center, The Rockefeller University, Weill Cornell Medicine)

Technical host 03 - 06 Aug 2021
Technical host for Zoom meetings for workshops, plenaries, and conference sessions for the virtual Animal Behavior Society conference (58th annual meeting)

Peer mentoring training 02 Aug 2021
Weaving the Future of Animal Behavior workshop for peer mentoring training at the 58th annual meeting of Animal Behavior Society

Instructor training Jun 2021
Learned best practices for teaching coding in an inclusive way for groups of students with different levels of coding experience, The Carpentries

Mentor training May 2021
Received weekly mentorship training as an NSF REU mentor through the Wisconsin Institute for Science Education and Community Engagement

Service

Active bystander training and conference duties 20 - 23 Jul 2022

Animal Behavior Society Allies program

Book chapter reviewer

2022

Princeton University Press

Grant reviewer

2021

Army Research Office (Biomathematics program) and Animal Behavior Society Student Research Grants

Journal reviewer

2019 - present

Ecology and Evolution, Animal Behavior, Methods in Ecology and Evolution, Ecology, Bioacoustics, Ornithology, Journal of Animal Ecology, Journal of Field Ornithology (Editorial Assistance Program)

Graduate Student Organization Officer, NMSU Biology Department

2014 - 2016

Outreach

Audio documentary interview on how the public can help shape neuroscience research

07 Dec 2022

iDeas Lab, Berman Institute of Bioethics

Co-consultant for TED-Ed lesson

published Jun 2022

[Why can parrots talk](#) and additional learning materials for students of different ages: *over 800,000 views*

Discussion panelist:

- Fulbright Uruguay Orientation Jul 2021
- Fulbright Workshops with NMSU Honors College Feb, Nov 2018
- Research Panel for New Mexico Alliance for Minority Participation Oct 2018

Twitter Takeover of Animal Behavior Society account

Nov 2020

Disseminated animal communication research findings, learning how to code, upcoming postdoc research

Podcast interview

Nov 2020

Discussion about monk parakeet ecology, Annenberg Media, University of Southern California

RLadies co-organizer

Fall 2020

Monthly virtual meetings about R coding from September to December 2020, El Paso/Las Cruces chapter

Skype a Scientist:

- Discussion with elementary school class Feb 2020
- LGBTIA+ LIVE Q and A session Jun 2020

Science outreach volunteer

Jan 2018, Mar 2019

Making DNA bracelets to link structure and function, Vista Middle School and Hillrise Elementary, Las Cruces, NM with Dr. Michèle Shuster

Science outreach volunteer

Jan 2014, 2015, 2016

Evolution and bioacoustics hands-on exercise with Sierra Middle School students, organized by Dr. Tim Wright, NMSU Biology Department

Science fair judge:

- Desert Hills Elementary, Las Cruces, NM Nov 2015
- Asombro Institute for Science Education, Las Cruces, NM Apr 2015

Society Memberships

Animal Behavior Society (2015, 2019 - 21), American Ornithologists' Union (2014, 2018, 2020), Society for the Study of Evolution (2018), American Genetic Association (2016, 2018 - 19), Society for Integrative and Comparative Biology (2016, 2018 - 19), Graduate Women in Science (2018), Sigma Xi (2016), RLadies (2019 - 20), GeoLatinas (2020 - 22)