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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

- 4) **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.
- 3) Araya-Salas, M., **Smith-Vidaurre, G.**, Chaverri, G., Brenes, J.C., Chirino, F., Elizondo-Calvo, J., A. Rico-Guevara. ohun: an R package for diagnosing and optimizing automatic sound event detection. *Submitted*. *bioRxiv* preprint [DOI](#).
- 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

2) Molina-Medrano, T., and **Smith-Vidaurre, G.**. Abissmal: **A**utomated **B**ehavioral Tracking by Integrating **S**ensors that **S**urvey **M**ovements **A**round a Target **L**ocation. Will be made available on GitHub: lastralab/Abissmal. 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

Michigan State University, Department of Computational Mathematics, Science, and Engineering	Feb 2023
<i>The evolutionary flexibility of vocal communication shaped by social learning</i>	
Montclair State University, Department of Biology	Feb 2023
<i>The evolutionary flexibility of vocal communication shaped by social learning</i>	
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

Resilience and sensitivity of learned vocalizations to the social environment

Integrated Behavioral Research Group seminar, EEB Department, Princeton University Mar 2021

Monk parakeet calls exhibit resilience and sensitivity to invasion

Coffee with Scientists talk Nov 2020

Deptment of History and Philosophy of Science, University of Cambridge

Understanding urban history from an ecological perspective, with Fedorova, N. and Logan, C.J.

Departmental seminar, Department of Biological Sciences, University of Cincinnati Oct 2020

Learned calls of monk parakeets exhibit sensitivity and resilience to invasion

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)
- Self-organized peer mentoring** Apr 2022 - present
Weekly sessions with senior grad students at Rockefeller University
- 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)	
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
<i>Ecology and Evolution, Animal Behavior, Methods in Ecology and Evolution, Ecology, Bioacoustics, Ornithology, Journal of Animal Ecology, Journal of Field Ornithology (Editorial Assistance Program)</i>	
Graduate Student Organization Officer , NMSU Biology Department	2014 - 2016

Outreach

Podcast interview on the history of monk parakeets in New York	08 Feb 2022
The Last Archive, Ben Naddaff-Hafrey	
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: <i>over 800,000 views</i>	
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)