

## Appointments and Education

2021 - 24	<b>NSF Postdoc Research Fellow</b>	The Rockefeller University, University of Cincinnati
2013 - 20	<b>PhD in Ecology and Evolutionary Biology</b>	New Mexico State University
2007 - 11	<b>BS in Biology and Spanish</b>	Haverford College

## 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](#).
- 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](#).
- 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](#).
- 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](#).
- 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

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

## 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
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

## Awards

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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> 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)	

## Book Chapters

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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

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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](https://github.com/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](https://github.com/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>.

## Invited talks

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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</i> , with Fedorova, N. and Logan, C.J.	
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: <i>The global rise of naturalized parrots: status, lessons learned, and emerging issues</i>	
Symposium talk: <i>Genetics of invasive parrots: insights into origins, invasion patterns and adaptation</i> with Russello, M.A. and Wright, T.F.	

## Workshops and Working Groups

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- 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

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- 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.  
*History of nonnative Monk Parakeets in Mexico*  
 Ornithological Congress of the Americas

Aug 2017

## Research Experience

**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

**Visiting researcher**, Santa Fe Institute 01 – 07 Nov 2016  
 Monk parakeet research collaborative visit, with Drs. Elizabeth Hobson and Alejandro Salinas-Melgoza

**Graduate research assistant**, NMSU 21 May – Oct 2016  
 Evaluating quasispecies diversity in dengue virus strains with Dr. Kathryn Hanley

**Field research technician**, Pacific coast of Nicaragua 22 Jun – 12 Jul 2016  
 Assessing spatiotemporal variability in parrot vocal dialects with Drs. Tim Wright, Christine Dahlin

**Sanger Sequencing Graduate Assistant**, NMSU Molecular Biology Sequencing facility Spring 2016  
 Sequenced samples for researchers across different NMSU departments (Dr. C. Brad Shuster)

**Intern**, National Center for Genome Resources, Santa Fe, NM. 16 Jun - 10 Jul 2015  
 Research internship in cutting-edge genomics and bioinformatics

**Visiting researcher**, University of British Columbia-Okanagan, Canada 15 Jan – 26 Jan 2015  
 Restriction enzyme associated DNA sequencing (RAD-seq) library prep with Drs. Andrew Veale, Michael Russello

**Visiting researcher**, University of British Columbia-Okanagan, Canada 7 Jul – 5 Aug 2014  
 RAD-seq bioinformatics with Drs. Andrew Veale, Michael Russello

**Avian field research technician**, La Selva Biological Station, Sarapiquí, Costa Rica Jan – Apr 2013  
 Social learning of hummingbird visual displays with Drs. Marcelo Araya-Salas and Tim Wright

**Avian field research technician**, RI Dept of Environmental Management, Kingston, RI Nov 2011 – Mar 2012  
 Management research with 3 native duck species

**Undergraduate thesis**, Haverford College Biology Department Sep 2010 – Apr 2011  
*Using acrylodan to probe oligomeric structures formed by the huntingtin N-terminus during aggregation* with Dr. Robert Fairman

**Undergraduate thesis**, Haverford College Spanish Department Sep 2010 – Apr 2011  
*Esta criatura no es de aquí: constelaciones de transformaciones y la invasión de la barbarie en 2666* with Dr. Roberto Castillo-Sandoval

## 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 2 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

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### 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

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### 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

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### Co-educator for TED-Ed lesson

published Jun 2022

[Why can parrots talk](#) and additional learning materials for students of different ages

### 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

Nov 2020

### RLadies co-organizer

Fall 2020

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

**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**


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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 (SICB)	2016, 2018 - 19
Graduate Women in Science	2018
Sigma Xi	2016
RLadies	2019 - 20
GeoLatinas	2020 - 22

## Reference Writers

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