# Grace Smith-Vidaurre

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Google Scholar | GitHub: @gsvidaurre | Twitter: @gsvidaurre

# Education

2013 - 20 **Ph.D. in Biology** 

New Mexico State University

Ph.D. mentor: Dr. Timothy Wright

2007 - 11 B.S. in Biology and Spanish

Haverford College

Senior thesis mentors: Dr. Robert Fairman, Dr. Roberto Castillo-Sandoval

# **Professional Appointments**

2024 Assistant Professor, 1855 Professor of Data Science

Michigan State University

Integrative Biology and Computational Mathematics, Science, and Engineering departments

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

# Peer-reviewed Publications and Accepted Manuscripts

\*former undergraduate mentee

- **10.** Araya-Salas, M., **Smith-Vidaurre, G.**, Chaverri, G., Brenes, J.C., Chirino, F., Elizondo-Calvo, J., A. Rico-Guevara. (2023). ohun: an R package for diagnosing and optimizing automatic sound event detection. *In press.* Methods in Ecology and Evolution. DOI.
- **9. Smith-Vidaurre, G.**, Pérez-Marrufo, V.\*, Hobson, E.A., Salinas-Melgoza, A., and T.F. Wright. (2023). Individual identity information persists in learned calls of introduced parrot populations. PLOS Computational Biology, 19(7): e1011231. DOI. Open-access code and data.
- **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). Yellownaped 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

- **2. Smith-Vidaurre, G.**, Molina, T., Jarvis, E.D., and E.A. Hobson. Automated tracking of avian parental care behavior. *Submitted*. EcoEvoRxiv preprint: https://doi.org/10.32942/X2Z60C.
- **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.A., **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, T., and Smith-Vidaurre, G. Abissmal: Automated Behavioral Tracking by Integrating Sensors that Survey Movements Around a Target Location. Will be made available on GitHub: lastralab/Abissmal. Repository access available upon request.
- 1. Araya-Salas, M., **Smith-Vidaurre, G.** 2015. warbleR: an R package to streamline bioacoustic analysis. URL: http://cran.r-project.org/package=warbleR.

# Fellowships, Grants, and Research Funding (\$478,470 total)

Leon Levy Scholarship in Neuroscience, New York Academy of Sciences (\$226,470, declined)	2023	
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	
Funded 9 months in Uruguay for PhD with Dr. Timothy Wright and Fulbright mentor Dr. Enrique Lessa		
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)		

#### **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

Presentation Awards: NMSU Biosymposium Best Graduate Talk (2020), NMSU Biosymposium Best Graduate Poster (2015, 2018), NMSU Graduate Research and Arts Symposium (GRAS) Honorable Poster Mention (2015). Travel and Diversity Awards: 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**

University of Utah, School of Biological Sciences

Mar 2023

The evolutionary flexibility of vocal communication shaped by social learning

Michigan State University, Department of Computational Mathematics, Science, and Engineering

Feb 2023

The evolutionary flexibility of vocal communication shaped by social learning	
Montclair State University, Department of Biology	Feb 2023
The evolutionary flexibility of vocal communication shaped by social learning	100 2020
Bridging Brains and Bioacoustics virtual seminar series	Nov 2022
An integrated perspective on learned vocal identity signaling	
Social Competency symposium, 59th Animal Behavior Society meeting	Jul 2022
Social systems, cognition, and identity signaling can provide new insights into vocal comm	munication
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  Monk parakeet calls exhibit resilience and sensitivity to invasion	Mar 2021
Coffee with Scientists talk	Nov 2020
Deprtment of History and Philosophy of Science, University of Cambridge	
Understanding urban history from an ecological perspective, with Fedorova, N. and Logar	n, 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 emer	
Symposium talk: Genetics of invasive parrots: insights into origins, invasion patterns Russello, M.A. and Wright, T.F.	and adaptation with
Workshops and Working Groups	
Attended Joint lab retreat to discuss collaborative projects on animal social behavior	Aug 2021
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National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville

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Smith-Vidaurre, G., Molina, T., Hobson, E.A., and E.D. Jarvis. Talk.

Jul 2023

Development of an automated system to comprehensively track avian parental care behavior Animal Behavior Society

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:

# Científico Latino x Simons Foundation 2023 GSMI Mentorship Program

Sep - Dec 2023

Mentoring an undergraduate student applying to graduate school programs

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 *RockEDU Science Outreach, Rockefeller University* 

Mar - Aug 2022

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 *Monthly peer mentoring with 4 peers at similar career stages (members of WOCinEEB)* 

2022 - present

Self-organized peer mentoring

Weekly sessions with senior grad students at Rockefeller University

**ABS Turner Program mentor** 

Jul 2023

Apr 2022 - present

Three mentoring sessions with an undergraduate student

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 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 - presen

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

# Scientific American interview on feral parrots around the world

10 Mar 2023

Parrots are taking over the world, Ryan Mandelbaum

# **Short research presentations** on 14 March, 17 and 27 April

Spring 2023

Rockefeller University Development Office tours organized by Stephanie Marcus

#### Podcast interview on the history of monk parakeets in New York

08 Feb 2023

The Last Archive, Ben Naddaff-Hafrey

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

07 Dec 2022

Neuroscience and Society film, 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 - 23), 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)