Grace Smith-Vidaurre _

 $\verb|https://smith-vidaurre.com/| \textbf{gsvidaurre@gmail.com}| \textbf{Pronouns}: \textbf{she/her}|$

Google Scholar | GitHub: @gsvidaurre | X: @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., and A. Rico-Guevara. (2023). ohun: an R package for diagnosing and optimizing automatic sound event detection. Methods in Ecology and Evolution, 14(9): 2259-2271. 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

- **2.** Dahlin, C.R., **Smith-Vidaurre, G.**, Genes, M.K., and T.F. Wright. Population decline contributes to cultural disruption in an Amazon parrot. *Submitted*.
- **1. Smith-Vidaurre, G.**, Molina, T., Jarvis, E.D., and E.A. Hobson. Automated tracking of avian parental care behavior. EcoEvoRxiv preprint: https://doi.org/10.32942/X2Z60C.

Software

- **2.** Molina, T., and **Smith-Vidaurre**, **G.**. ABISSMAL: **A**utomated **B**ehavioral Tracking by **I**ntegrating **S**ensors that **S**urvey **M**ovements **A**round a Target **L**ocation. https://github.com/lastralab/ABISSMAL.
- 1. Araya-Salas, M., Smith-Vidaurre, G. 2015. warbleR: an R package to streamline bioacoustic analysis. Chttp://cran.r-project.org/package=warbleR.

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.

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)	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

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

The Ohio State University, Department of Evolution, Ecology, and Organismal Biology	Oct 2023
The evolutionary flexibility of vocal communication shaped by social learning	
Cary Institute of Ecosystem Studies, Lunch Bunch seminar	Sep 2023
Development of an automated system to comprehensively track avian parental care behavior	

Michigan State University, Department of Computational Mathematics, Science, and Engineering The evolutionary flexibility of vocal communication shaped by social learning Montclair State University, Department of Biology The evolutionary flexibility of vocal communication shaped by social learning Bridging Brains and Bioacoustics virtual seminar series Rocial Competency symposium, 59th Animal Behavior Society meeting Social Competency symposium, 59th Animal Behavior Society meeting 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 Department 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 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 a
Montclair State University, Department of Biology The evolutionary flexibility of vocal communication shaped by social learning 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 Social systems, cognition, and identity signaling can provide new insights into vocal communication 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 Deprtment 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 Cot 2020 Learned calls of monk parakeets exhibit sensitivity and resilience to invasion Naturalized parrots symposium at the North American Ornithological Conference 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
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Workshops and Working Groups
Co-organized upcoming Santa Fe Institute Micro Working Group Apr 2024
Sampling Completeness and Metric Robustness of Bipartite Networks: New collaboration with Dr. Anshuman Swain, Dr. Mari Kawkatsu, Dr. Harrison Hartle. Funded by the Santa Fe Institute
Attended JSMF-SFI Postdocs in Complexity Conference XI, Santa Fe Institute Oct 2023
Organized by Dr. David Krakauer and Hilary Skolnik (Santa Fe Institute), funded by the James S. McDonnell Foundation
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, 2021
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

20-24 Mar 2016

Universidad Centroamericana, Managua, Nicaragua with Dr. Marcelo Araya-Salas

Attended La Kretz Conservation Genomics Workshop, UCLA

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., 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 a Master's student applying to PhD 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

Mar - Aug 2022

RockEDU Science Outreach, Rockefeller University

Peer mentoring:

Weaving the Future of Animal Behavior: Power of Peer mentoring, undergraduates
Jul 2022 - present 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

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

Self-organized peer mentoring

Apr 2022 - Nov 2023

Weekly sessions with senior grad students at Rockefeller University

ABS Turner Program mentor

Jul 2023

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, 2023

2021, 2024

Princeton University Press

Grant reviewer

Army Research Office (Biomathematics program, 2021)

Animal Behavior Society Student Research Grants (2021, 2024)

Journal reviewer 2019 - present

Philosophical Transactions of the Royal Society B, Ecology and Evolution, Animal Behavior, Methods in Ecology and Evolution, Ecology, Bioacoustics, Ornithology, Journal of Animal Ecology, Journal of Field Ornithology (Editorial Assistance Program)

Grace Smith-Vidaurre	CV	Page 7 of 8
Graduate Student Organization	Officer, NMSU Biology Department	2014 - 2016
Outreach		
Scientific American interview on Parrots are taking over the world, R	•	10 Mar 2023
Short research presentations on Rockefeller University Development	14 March, 17 and 27 April Office tours organized by Stephanie Marcus	Spring 2023
Podcast interview on the history of The Last Archive, Ben Naddaff-Haf	•	08 Feb 2023
-	how the public can help shape neuroscience research s Lab, Berman Institute of Bioethics	07 Dec 2022
Co-consultant for TED-Ed lesso Why can parrots talk and additional	n I learning materials for students of different ages: <i>over</i>	published Jun 2022 800,000 views
Discussion panelist:		
 Fulbright Uruguay Orientation Fulbright Workshops with NN Research Panel for New Mexic 		Jul 2021 Feb, Nov 2018 Oct 2018
Twitter Takeover of Animal Poha	view Consists annount	Nov. 2020

Twitter Takeover of Animal Behavior Society account

Nov 2020

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

Nov 2020 **Podcast interview**

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

Annual Meetings and Conferences

Animal Behavior Society (2015, 2019, 2020 - 2023), American Ornithologists' Society (2018), Society for Integrative and Comparative Biology (2019), Gordon Research Conference on Neural Mechanisms of Acoustic Communication (2022), Gordon Research Conference on Neuroethology: Behavior, Evolution, and Neurobiology (2023)

Society Memberships

Animal Behavior Society (2015, 2019 - 24), 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)