

# Gabriela Palomo-Munoz

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Postdoctoral Fellow

2021 Throckmorton 1712 Claflin Road Manhattan, KS 66506

Kansas State University

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## Education

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**Ph.D. in Natural Resources** 2022

University of Nebraska Lincoln

*Thesis: Impacts of Anthropogenic Pressures on Ocelots (Leopardus pardalis) in the Maya Biosphere in Guatemala*

Advisor: Andrew J Tyre

**M.A. in Higher Education** 2017

Universidad del Valle de Guatemala

**M.Sc. in Wildlife Management** 2012

Universidad de San Carlos de Guatemala

*Thesis: Density and Abundance of Ocelot (Leopardus pardalis) in the Protected Biotope Naachtun-DosLagunas, Maya Biosphere Reserve, Guatemala*

Advisor: Dennis Centeno

**B.S. in Biology** 2007

Universidad del Valle de Guatemala

## Postdoctoral Appointments

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**Kansas State University** January 2022 - present

Dr Adam Ahlers, Department of Horticulture and Natural Resources

## Publications

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### Peer Reviewed Papers

1. Burnett, Jessica L., Renee Dale, Chung-Yi Hou, **Gabriela Palomo-Muñoz**, Kaitlin Stack Whitney, Steve Aulenbach, Robert Sky Bristol, Denis Valle, and Tristan P. Wellman. 2021. Ten Simple Rules for Creating a Scientific Web Application. PLOS Computational Biology 17 (12): e1009574. <https://doi.org/10.1371/journal.pcbi.1009574/>.
2. Burnett, Jessica L., Lyndsie Wszola, and **Gabriela Palomo-Muñoz**. 2019. bbsAssistant: An R Package for Downloading and Handling Data and Information from the North American Breeding Bird Survey. Journal of Open Source Software 4 (44): 1768. <https://doi.org/10.21105/joss.01768/>.
3. Kattán, Guillermo Alejandro Mármol, **Gabriela Palomo-Muñoz**, Juan Pablo Pinto Meneses, and Isabella Mercedes Rosito Prado. 2019. Registro Notable de Dos Mesocarnívoros En El Bosque Nuboso de Baja Verapaz, Guatemala. Revista Mexicana de Mastozoología (Nueva Época) 9 (1): 56–61. <https://doi.org/10.22201/ie.20074484e.2019.1.1.271>.
4. Cano, EB, and **G Palomo-Muñoz**. 2017. La Verdadera Historia Del Chupacabras: La Importancia de Las Colecciones de Historia Natural En La Desarticulación de Los Mitos Modernos. Revista de La Universidad Del Valle de Guatemala, no. 34: 50–57. <https://www.uvg.edu.gt/servicios/volumen-34/>.

5. WDix, Michael, **Gabriela Palomo-Muñoz**, and Margaret A Dix. 2017. Bromelias Del Jardín Botánico Del Departamento de Biología de La Universidad Del Valle de Guatemala. *Revista de La Universidad Del Valle de Guatemala*, no. 34: 20–30. <https://www.uvg.edu.gt/servicios/volumen-34/>.
6. **Palomo-Muñoz, Gabriela**, Rony García-Anleu, Gabriela Ponce-Santizo, and José F. Moreira-Ramírez. 2014. Abundancia, Densidad y Patrones de Actividad de Ocelotes (*Leopardus pardalis*) Utilizando Trampas Cámara En El Biotopo Protegido Dos Lagunas, Petén, Guatemala. *Revista de La Universidad Del Valle de Guatemala*, no. 29: 39–46. <https://www.uvg.edu.gt/servicios/volumen-29/>.

#### *In-Review Papers*

1. **Palomo-Munoz, Gabriela**; Ty Werdel, Colleen Piper, Matthew Peek, Andrew Ricketts, Adam Ahlers. 2022. Spatiotemporal distributions of mammals occurring in an agro-prairie ecosystem. *Ecology*. *Ecology*. In review.
2. **Palomo-Munoz, Gabriela** & Rony García-Anleu. 2022. Dangerous liaisons: Ocelot (*Leopardus pardalis*) encounter with a Mexican Tree Porcupine (*Coendou mexicanus*) in the Maya Biosphere Reserve in Guatemala. *Southwestern American Naturalist*. In review.

#### *In-Preparation Papers*

1. **Palomo-Munoz, Gabriela**, Chris Sutherland, Rony Garcia-Anleu, Andrew Tyre. 2022. Ocelot spatial ecology varies across a gradient of human influence in the Maya Biosphere Reserve. *Journal of Mammalogy*. In preparation.
2. **Palomo-Munoz, Gabriela**, Mason Fidino, Ty Werdel, Colleen Piper, Adam Ahlers. 2022-2023. Local and landscape scale habitat structure mediates interactions between coyotes and lagomorphs. In preparation.
3. **Palomo-Munoz, Gabriela**, Chris Sutherland, Rony Garcia-Anleu, Andrew Tyre. 2022-2023. Anthropogenic effects on spatio-temporal and temporal patterns of a carnivore guild in the Maya Biosphere Reserve.

## Contributed Presentations

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1. *Local scale habitat structure mediates interactions between coyotes and lagomorphs*. American Society of Mammalogists. Tucson AZ. 2022. [In-person. English]
2. *Anthropogenic effects on ocelot density in the Maya Biosphere Reserve in Guatemala*. The Wildlife Society Conference. 2021. [Online. English].
3. *Anthropogenic effects on ocelot density in the Maya Biosphere Reserve in Guatemala*. American Mammalogist Society Conference. 2021. [Online. English].
4. *Densidad de ocelotes a través de un gradiente de perturbación humana en la Reserva de la Biosfera Maya*. IV Congreso Colombiano de Mastozoología. 2021. [Online. Spanish]
5. *Temporal Partitioning of Jaguars and Pumas in the Maya Biosphere Reserve of Guatemala*. The Wildlife Society Conference. 2020. [Online. English].
6. *Debunking the Modern Wildlife Myths and their Risk to Wildlife Conservation*. Midwest Fish and Wildlife Conference. Springfield, IL. [In-person. Poster. English].

## Invited Talks

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1. *Ecology of a Neotropical mesocarnivore in a multi-use conservation landscape: ocelot populations in Guatemala*. Ecology and Evolutionary Biology Department Seminars. Kansas State University. **2023**. [In-person. English.]

2. *Ecology of a Neotropical mesocarnivore in a multi-use conservation landscape: ocelot populations in Guatemala*. Lincoln Park Zoo Seminar Sessions. 2022. [Online. English]
3. *Estado de las poblaciones de ocelotes en Guatemala*. Colegio de Farmaceuticos y Quimicos de Guatemala - COFAQUI. 2022. [Online. Spanish]
4. *Estudios de Evaluacion y Conservacion de Vertebrados Usando Trampas Camara*. Organización de Estudiantes de Biología de la Universidad de San Carlos de Guatemala. OEB-USAC. 2020. [Online. Spanish].

## Professional Experience

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### Curator Vertebrate Zoological Collection

2011-2017

*Universidad del Valle de Guatemala, Guatemala City, Guatemala*

I was the curator of the Vertebrate Zoological Collection housed at del Valle University. I managed the budget and supervised personnel working at the Zoological Collection. Among my curatorial tasks were routinely cataloging and curating specimens from various taxonomic groups. This collection houses many types of amphibians and reptiles which have been described as new species (e.g., *Bolitoglossa qeqom*). Many of the specimens described in the book *A Field Guide to the Mammals of Central America and Southeast Mexico* by Fiona Reed are in this collection.

### Director of the Botanical Garden of the Biology Department

2013 - 2017

*Universidad del Valle de Guatemala, Guatemala City, Guatemala*

The Biology Department of del Valle University has a small Botanical Garden with a living orchid (150 species) and bromeliad (70 species) collection with specimens from Guatemala. I managed the budget and supervised personnel working at the Botanical Garden. However, I also worked alongside personnel in caring for orchids and bromeliads in the collection by implementing different horticultural techniques specific for each species. I implemented an education program in which employees and I participated in workshops to improve and learn new ways to care for orchids and bromeliads.

### Research Assistant

2005-2008

*Museo de Historia Natural de Guatemala - MUSHNAT, Guatemala City, Guatemala*

I worked at Museo de Historia Natural (MUSHNAT-USAC, National History Museum of San Carlos University) and Universidad del Valle de Guatemala (UVG) in two consecutive projects. The first was called Biodiversity Information System for Guatemala (SGIB), Phase II: Molluscs. This project was funded by Consejo Nacional de Ciencia y Tecnología (CONCYT).

The second project called Molluscs in Marine Pastures and Manglar in Marine Protected Areas in Guatemala. Phase I: Atlantic Coast. This project was funded by Consejo Nacional de Ciencia y Tecnología (CONCYT).

## Teaching Experience

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### University of Nebraska Lincoln (*English*)

NRES 498: Special Topics: Introduction to Data Analysis in R

Spring 2020

*Instructor*

NRES 311: Wildlife Ecology and Management

Spring 2021

*Teaching Assistant*

NRES 431: Waterfowl Ecology and Management

Fall 2021

*Teaching Assistant*

NRES 222: Ecology Laboratory <i>Teaching Assistant</i>	Spring 2019, Fall 2019, 2021
NRES 233: Wildlife Field Techniques <i>Teaching Assistant</i>	Fall 2020
NRES 433: Wildlife Management Techniques <i>Teaching Assistant</i>	Fall 2020
BIOS 450: Biology of Wildlife Populations <i>Teaching Assistant</i>	Spring 2019
NRES 311: Wildlife Ecology and Management <i>Teaching Assistant</i>	Spring 2021

### Universidad del Valle de Guatemala (*Spanish*)

BB 3048 (BB 3030): Statistical Models in Biology	Spring 2015, 2016, 2022, Fall 2021
BB 3026: Invertebrate Zoology	Spring 2017, Fall 2011, 2012, 2013, 2014, 2015, 2016
MM 2040 (MM 2016): Statistical Models 2	Spring 2017, Fall 2014, 2015, 2016
CU 109: Statistical Models 1	Spring 2014, 2015, 2016, Fall 2016
CU 4003 (CU 4005): Academic Coaching for Students	Spring 2012, 2013, 2014, 2015, 2016, Fall 2012, 2013, 2014, 2015
BB 3002: Vertebrate Zoology	Spring 2016
BB 3046: Ecotoxicology (invertebrate module)	Fall 2015
BB 2011: General Ecology	Spring 2015, Fall 2013, 2014
BB 1004: General Biology	Spring 2013, 2014
CU 127: Life Sciences	Spring 2012, 2013
BB 3016: Planning and Evaluating Research Projects	Spring 2012
BB 3008: Demography, Population, and Natural Resources	Spring 2012

## Advising

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### *Undergraduate thesis committee*

1. Cristina Escobar-Cifuentes, 2022, Universidad de San Carlos de Guatemala. Thesis: Análisis de co-ocupación y segregación temporal de dos félidos simpátricos (*Leopardus pardalis*) y (*L. wiedii*) en dos Parques Nacionales de la Reserva de la Biosfera Maya, Petén, Guatemala. ENG (Co-occurrence and temporal segregation between two sympatric felids: ocelots and margays in the Biosphere Reserve in Guatemala.)

## Fellowships & Awards

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1. 2020. Lee Fenske Memorial Award for Graduate Students Midwest Fish and Wildlife Conference 2020, Finalist.
2. 2017-2019. Fulbright Scholarship. Scholarship for a PhD Degree in Applied Ecology at the University of Nebraska Lincoln.

3. 2014-2017. Universidad del Valle de Guatemala. Scholarship for a Master´s Degree in Higher Education.
4. 2015, Outstanding Thesis Award. School of Veterinary Medicine. Universidad de San Carlos de Guatemala.
5. 2006, Theoretical and Practical Workshop in Methodological Fundamentals in conservation and Sustainable Management of Fauna and Flora in Central America. Hosted by: Red Alpha BioDeCA Europe Aid–Salamanca University, Spain July 24th to August 11th 2006. Nicaragua, Central America.

## R Contributions

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### *Cheatsheets*

1. Palomo-Munoz, Gabriela. 2019. R Cheatsheet:oSCR. <https://github.com/rstudio/cheatsheets/blob/master/oSCR.pdf>
2. Palomo-Munoz, Gabriela. 2019. R Cheatsheet: Rphylopic. <https://github.com/rstudio/cheatsheets/blob/master/rphylopic.pdf>

### *Silhouettes*

All my silhouettes are uploaded to phylopic.org and you can find them here: <https://beta.phylopic.org/contributors/f57cf3c4-210c-4bcf-a759-9fcbc0cd8ba1>

## Professional Service

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### Journal Referee

1. Ecological Applications
2. Ecosphere
3. Biological Conservation
4. Global Ecology and Conservation
5. Population Ecology
6. Journal of Zoology
7. Therya

## Professional Memberships

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1. TWS: The Wildlife Society: 1) Biometric Working Group. <https://wildlife.org/>
2. ESA: Ecological Society of America.
  - A) Latin American Chapter,
  - B) Early Career Ecologist Section,
  - C) Applied Ecology Section. <https://www.esa.org/>
3. ASM: American Society of Mammalogy. <https://www.mammalsociety.org/>
4. The Wildfelid Association. <http://wildfelid.org/>
5. Southwestern Association of Naturalists. <http://https://saon.wildapricot.org/>
6. ASOGUAMA: Asociación Guatemalteca de Mastozoología.