

# Chauncey R. Gadek

## Curriculum vitae

Department of Biology and Museum of Southwestern Biology  
University of New Mexico, 156 Castetter Hall  
Albuquerque, NM 87131

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## Professional Preparation

### PhD Evolutionary Biology,

University of New Mexico, Albuquerque, NM

August 2019 - December 2025 (Anticipated)

### M.Sc. Evolutionary Biology, (Highest Honors, *Distinction*)

University of New Mexico, Albuquerque, NM

December 2019

### B.S. Biology (Highest Honors, *summa cum laude*; minor in Chemistry)

University of New Mexico, Albuquerque, NM

May 2016

## Research Experience

### Research Assistant

January 2020 - present

Museum of Southwestern Biology UNM, Albuquerque, NM

- Data and analysis manager for crane vocal tract evolution project.

### Field Assistant, Avian Malaria Diversity Project

June - July 2017

Museum of Southwestern Biology UNM, Albuquerque, NM

- Data collection and preparation of avian specimens for malaria survey project

### Expedition Leader, Andean Marsh Bird Project

January - February 2017

Museum of Southwestern Biology UNM, Albuquerque, NM

- Managed national research permit process, two field technicians, and data collection Peru

### Expedition Leader, High-Altitude Adaptation of Andean Marsh Bird Project

July 2016

Museum of Southwestern Biology UNM, Albuquerque, NM

### Field Assistant, Small Mammal Community Dynamics Project

January 2014 - April 2016

University of New Mexico, Albuquerque, NM

- Blood collection, morphometrics, and Quantitative Magnetic Resonance scanning of small mammal communities on Sevilleta LTER

### Curatorial Assistant,

August 2014 - April 2016

Museum of Southwestern Biology, Albuquerque, NM.

- Organization of tissues, processing of tissue acquisitions, tissue loans, and data management
- Prepared over 500 vouchered specimens

### Reviewer for:

BMC Evolutionary Biology (1), Heredity (1), PLOS Genetics (1), Proc. B (1), UNM BGSA GRAC (8)

## Oral Presentations

2019 **Gadek, C. R.** & Witt C.C. Dynamics Of Avian Elevational Ranges Reveal Hidden Evolutionary Forces, UNM Brown Bag, Albuquerque NM.

2018 **Gadek, C. R.** & Witt C.C. Evolutionary Dynamics of Elevational Ranges in Andean Birds. New Mexico Ornithological Society Annual Meeting, Albuquerque NM.

2018 **Gadek, C. R.** & Witt C.C. Evolutionary Dynamics of Elevational Ranges in Andean Birds. University of New Mexico Biology Department Research Day, Albuquerque NM.

2016 **Gadek, C.R.** Broad elevational distributions: Why are mountain passes are lower for some species? North American Ornithological Conference, Washington D.C.

2016 **Gadek, C.R.** Why Are Elevational Generalists Rare? New Mexico Ornithological Society Annual Meeting, Albuquerque, NM.

2016 **Gadek, C.R.** Elevational migration and genetic divergence in songbird species in the Peruvian Andes. University of New Mexico Biology Department Research Day, Albuquerque NM.

## Poster Presentations (\* = presenter)

- 2018 **Gadek, C. R.** & Witt C.C. Evolutionary Dynamics of Elevational Ranges in Andean Birds. Genomics of Adaptation, Flathead Lake Biological Station, Polson, MT
- 2018 **Williamson, JL\***, SM Bauernfeind, **CR Gadek**, N Ricote-Martinez, F Bozinovic and CC Witt. The paradoxical Giant Hummingbird: Comparison of Andean and coastal subspecies with respect to blood, migration, and genes. American Ornithological Society Conference, Tucson, AZ
- 2018 Barrow, L.N., Bauernfeind\*, S.M., Witt, C.C., Baumann, M.J., Brady, S.S., Chavez, A.N., Cruz, P.A., Ford, J.E., **Gadek, C.R.**, Galen, S.C., Johnson, A.B., Mapel, X.M., and Williamson, J.L. Comparison among Sky-island Haemosporidian Communities Reveals Dynamics of Parasite-species Turnover and Host-switching. UNM Department Research Day, Albuquerque, NM

## Publications

1. Adame V, Chapapas H, Cisneros M, Deaton C, Deichmann S, **Gadek C**, Lovato TL, Chechenova MB and Cripps RM (2016) An undergraduate laboratory class using CRISPR/Cas9 technology to mutate Drosophila genes. Biochemistry and Molecular Biology Education, 44:263–275.
2. Marroquin-Flores, R. A., J. L. Williamson, A. N. Chavez, S. M. Bauernfeind, M. J. Baumann, **C. R. Gadek**, A. B. Johnson, J. M. McCullough, C. C. Witt, and L. N. Barrow. (2017) Diversity, abundance, and host relationships of avian malaria and related haemosporidians in New Mexico pine forests. PeerJ 5: e3700.
3. **Gadek, C.R.**, Newsome, S.D., Beckman, E.J., Chavez, A. N., Galen, S.C., and Witt, C.C. (2017) Ecological and evolutionary consequences of broad elevational ranges in the tropics: a comparison of four songbird species on the Andean west slope. Journal of Animal Ecology.
4. Barrow LN, SM Bauernfeind, JL Williamson, **CR Gadek**, SC Galen, AB Johnson, XM Mapel, RA Marroquin-Flores, and CC Witt. Comparing community composition despite incomplete sampling and uneven abundance: a case study of sky-island haemosporidian parasites. (In preparation).

## Scholarships and Grants

2016	<b>Donald Caughren Endowed Memorial Scholarship</b> , UNM Biology Department	\$3000
	Evolutionary consequences of elevational generalism	
2016	<b>Maurice L. Hughes Scholarship</b> , UNM Biology Department	\$2000
2016	<b>NAOC Travel Award</b> , American Ornithological Union	\$200
2016	<b>Research Grant</b> , UNM Biology Graduate Student Association	\$400
	Gene flow and divergence in isolated marsh bird populations	
2016	<b>Chapman Research Grant</b> , American Museum of Natural History,	\$1275
	Gene flow and divergence in isolated marsh bird populations	
2017	<b>Lynne Hertel Memorial Scholarship</b> , UNM Biology Department,	\$3000
	Gene flow and divergence in isolated marsh bird populations	
2017	<b>Professional Development Grant</b> , UNM Graduate and Professional Student Association	\$500
2017	<b>Research Grant</b> , UNM Graduate and Professional Student Association	\$500
	Gene flow and divergence in isolated marsh bird populations	
2018	<b>Grove Scholarship</b> , UNM Biology Department	\$2000
	Gene flow and divergence in isolated marsh bird populations	
2108	<b>WOS Research Grant</b> , Wilson Ornithological Society	\$2500
	Gene flow and divergence in isolated marsh bird populations	
2018	<b>AOS Research Grant</b> , American Ornithological Society	\$2500
	Gene flow and divergence in isolated marsh bird populations	
2018	<b>Research Grant</b> , UNM Biology Graduate Student Association	\$400
	Epigenetic divergence in isolated marsh bird populations	
2019	<b>Professional Development Grant</b> , UNM Graduate and Professional Student Association	\$500

## Awards and Honors

<b>Distinction</b> , UNM Biology Department, master's thesis defense	2019
<b>Best Student Oral Presentation</b> , UNM Biology Department Research Day	2018
<b>Graduate Research Fellowship</b> , National Science Foundation (Honorable Mention)	2017
<b>Summa cum laude</b> , UNM Biology Department Undergraduate Graduation	2016