Karina Sanchez

University of New Hampshire | Department of Natural Resources and the Environment | 166 James Hall | 56 College Rd | Durham, NH 03824 | karina.sanchez@unh.edu | (801)-631-5634 | urbanbirdnerd.com

ACADEMIC	APPOINTMENTS	
----------	--------------	--

2022 - present		University of New Hampshire Durham, NH Postdoctoral Diversity and Innovation Scholar Department of Natural Resources and the Environment
EDUCATION		
May 2022	Ph.D.	University of Northern Colorado (UNCO) Greeley, CO Biological Education Dissertation: Effects of Noise, Light, and Landscape on Birds in a Recently Urbanized County Advisor: Dr. Lauryn Benedict
2014	B.S.	Westminster College Salt Lake City, UT B.S. Biological Sciences.

SUMMARY

Research: Broadly trained biologist with an emphasis in **behavioral ecology**, **urban ecology**, **ornithology**, and **biological education research**; 3 papers in press, 3 under review, and 2 in preparation for submission; 3 invited presentations, 4 poster presentations and 11 oral presentations at national and international conferences. Have obtained ~ \$100,000 in research and dissertation associated funding combined.

Teaching: Instructor of record for 2 semesters (Organismal Biology, Environmental Biology) at 2 universities; co-taught for 1 semester; teaching assistant for 14 lab sections (2 different courses), and 5 lecture sections (2 different courses). Experience in curriculum development, pedagogy training from 4 program courses and 3 workshops. Funding support to transform a high-enrollment course into an accessible Open Educational Resource.

Mentoring: As a doctoral student, I mentored 12 undergraduate students including 5 independent study research projects. Currently, I am mentoring 1 PhD student at the University of New Hampshire.

Current Projects:

- 1) Biodiversity matters: Exploring links between species richness and psychological wellbeing (Co-PI)
- 2) Assessing the efficacy of research programs designed for post-baccalaureates: an assessment of the NSF Research and Mentoring Program (RaMP) program across 12 institutions (Lead-PI)
- 3) Multimodal sensory in urban American Robin mate selection.

PUBLICATIONS

- 1. <u>Sanchez, K.A.</u>, Fialko, K., Benedict, L., Cicero, C., *Time alters urban singing strategies in a North American songbird.*, Journal of Urban Ecology. (In Press)
- 2. <u>Sanchez, K.A.,</u> Bevan, A., Vita, A., Royse, E.A., Januszkiewicz, E., Holt, E.A., *Grit matters to biology doctoral students' perception of barriers to degree completion.*, Journal of Biological Education. (In Press)

- 3. Stracey, C.M., <u>Sanchez, K.A.</u>, Brown, B., Hawkins, D., Shepherd, T., *Singing on the nest is a common behavior in incubating Northern Mockingbirds*, Ornithology. (In Press)
- 4. Layden, T., Nelson, J., Bombaci, S., Laverty, T., Edder, A., Verahmi, A., <u>Sanchez, K.A.,</u> Khalighifar, A., Starr., S, *The consequences of inequitable noise on urban wildlife.* (Under Review)
- 5. <u>Sanchez, K.A.</u>, Bevan, A., Holt, E.A. Bringing awareness of social justice issues in ecology to the classroom. (Under Review)
- 6. <u>Sanchez, K.A.,</u> Landscape is a stronger determinant than noise and light of avian community structure in a newly urbanized county. Frontiers of Ecology and Evolution. (Under Review)

Sanchez, K.A., Benedict, L., The effects of noise, light, and landscape composition on singing behavior and reproduction of a common urban bird. (In Prep)

Barros, C., Benedict, L., <u>Sanchez, K.A.,</u> Current evidence for the functions of female song. (In Prep)

INVITED PRESENTATIONS

2023 University of New Hampshire | Department of Biological Sciences

Bringing awareness of social justice issues in ecology to the classroom, Spring
2023!

2022 University of New Hampshire | Department of Natural Resources and the Environment

Effects of noise, light, and landscape on birds in a recently urbanized county,

Fall 2022

2019 Colorado State University | Department of Natural Resources Uptown birds: Living in an altered world, Fall, 2019

RESEARCH POSTERS* AND ORAL PRESENTATIONS

*Bevan, A., Sanchez, K.A., Holt, E., Intervention to Address Representation and Social Justice Issues in Ecology. 2022 Ecological Society of America / Canadian Society for Ecology and Evolution joint meeting. Montreal, Canada

Sanchez, K.A., Benedict, L., Development drives song changes but has little effect on reproductive success in American Robins (*Turdus migratorius*).

- American Ornithological Society and the Birds of the Caribbean 2022 meeting. San Juan, Puerto Rico.
- Colorado Field Ornithologists 2022 Convention, Pueblo, CO.
- Sanchez, K.A., Kennedy, C., Benedict, L., Avian community structure across an urbanizing county: The effects of noise, light, and landscape composition.
- 2021 American Ornithological Society/ Society of Canadian Ornithologists joint meeting.

Sanchez, K.A., Benedict, L., Cicero, C., Fialko, K., Bird song characteristics respond differently to landscape development at two points in time. Animal Behavior Society meeting.

Sanchez, K., Studying birds in a rapidly urbanizing county. University of Northern Colorado Biology Lightning Talks, Greeley, CO.

Sanchez, K.A., Benedict, L., Cicero, C., Fialko, K., Patterns of change in bird song characteristics across space and time; an update. Front Range Student Ecology Symposium, Fort Collins, CO

Sanchez, K.A., Measuring the effects of urban characteristics on a common backyard bird. University of Northern Colorado 2020 Research Day.

*Sanchez, K.A., Benedict, L., Cicero, C., Fialko, K., Patterns of change in bird song characteristics across space and time. University of Northern Colorado Fall 2020 Research Evening.

2019 Sanchez, K.A., Kennedy, C., Salo, J., Benedict, L., Uptown birds living in an altered world: Urban characteristics and avian species in Weld County, CO, 56th Annual Conference of the Animal Behavior Society and the 36th International Ethological Conference, Chicago, IL.

Sanchez, K.A., Salo, J., Benedict, L., Urban landscape characteristics and avian diversity. University of Northern Colorado 2019 Research Day.

Sanchez, K.A., Kennedy, C., Salo, J., Benedict, L., The effects of urban landscape characteristics on avian diversity and abundance in Weld County, Colorado, US-International Association for Landscape Ecology Annual Meeting, Fort Collins, CO.

- 2018 Sanchez, K.A., Benedict, L., Cicero, C., Fialko, K., Spotted Towhee (Pipilo maculatus) song characteristics at two time points across an urban gradient,
 - American Ornithology 136th Meeting, Tucson, AZ.
 - University of Northern Colorado 2018 Research Day
 - *Sanchez, K.A., Benedict, L., The effects of urban noise and light on songbird abundance, richness, and song characteristics in a rapidly urbanizing area, Front Range Student Ecology Symposium, Fort Collins, CO
- Sanchez, K.A., Neville, A., Predator Control on Utah's managed wetlands, Utah Wetlands Foundation Annual Meeting, Salt Lake City, UT.
- *Sanchez, K.A., Hawkins, D., Stracey, C., Singing on the nest: the occurrence of a paradoxical behavior
 - 98th Annual Ecological Society of America Meeting, Minneapolis, MN
 - 2013 Utah Conference on Undergraduate Research, Logan, UT
 - Utah Audubon Society Meetings, Salt Lake City, UT

FUNDING, GRANT SUPPORT, AND AWARDS

Research

2023

NSF EES – Racial Equity in STEM Ed. Who gets to belong? Intersectional understandings of racial equity and sense of belonging within conservation sciences (Proposal submitted)

2022	\$50,000	Collaborative Research Enhancement and Team Exploration grant, New Hampshire Agricultural Experiment Station [co-PI]
2021	\$20,000	American Dissertation Fellowship, American Association of University Women
2021	\$3235	Summer Research Funding, UNCO School of Biology
2020	\$900	Publication Grant, UNCO CARES Funding
2020	\$2433	Hesse Research Award, American Ornithological Society
2020	\$480	NHS Student Research Award, UNCO
2020	\$3200	Summer Research Funding, UNCO School of Biology
2019	\$1500	Diversity in Light Grant, Zoological Lighting Institute
2019	\$1500	Colorado Field Ornithologists Research Grant
2019	\$3200	Summer Research Funding, UNCO School of Biology
2019	\$300	NHS Student Research Award, UNCO
2018	\$150	UNCO Graduate Student Association Research Award
2018	\$3200	Summer Research Funding, UNCO School of Biology
2013-14	\$3000	Great Salt Lake Institute B.R.I.N.E. Research Grant
2012-14	\$7500	Westminster College Summer Undergraduate Research Award
Travel		
2019	\$150	Animal Behavioral Society Diversity Travel Award
2019	\$600	UNCO Graduate Student Association Travel Award
2018	\$300	UNCO Graduate Student Association Travel Award
Teaching /Servi	ce	
2021	\$500	CO-WY/ LEAP Summer STEM Mentor
2020	\$3000	UNCO Open Educational Award: OER Adopt-Adapt-Create Grant
Graduate acade	emic support	
2020	\$3500	Colorado Graduate Grant
2019	\$762.5	Dr. Albert M. Winchester Graduate Fellowship in Biology
2019	\$3500	Colorado Graduate Grant
2018	\$3500	Colorado Graduate Grant
Awards and Ho	nors	
2022		The Graduate Dean's Citation for Excellence (UNCO)
2021		UNCO Graduate Student Excellence in Teaching Award
2021		UNCO Graduate Student Excellence in Mentorship Award
		error eraduate eradent Excellence in Memoretin / Mara

2020	UNCO Research Excellence Award -First Place in NHS Graduate
2020	Oral Presentation Competition (\$100 prize)
2019	Hutchinson -Lahman Research Award- First Place (\$500 prize)
2019	NSF Graduate Research Fellowship Program Honorable

Mention

TEACHING EXPERIENCE

University of New Hampshire

2023 Instructor of record | Environmental Biology – 50 undergraduate students.

University of Northern Colorado

2020	Instructor of record Introduction to Organismal Biology - 60 undergraduate students
2017- 2018	Teaching assistant Introduction to Biology: Atoms to Cells – taught & graded 4 lab sections, 3 lecture sections
2018 -2019	Teaching assistant Museum Studies – taught 3 sections
2018 – 2021	Teaching assistant Introduction to Organismal Biology – taught & graded 3 lab sections (2018) 2 lab sections, 1 lecture section, preparation lead for 9 lab sections (2019) 2 lab sections, 1 lecture section, preparation lead for 9 lab sections (2020)

Curriculum development

2020 – 2021 Introduction to Organismal Biology

- Developed online and in-person materials for both lecture and lab.
- Organized and led committee to redesign and transform the course to an Open (cost-free to students) course by adapting and curating an online textbook.
- Developed active learning activities for lecture and lab courses.

SERVICE

Student Mentoring

University of Northern Colorado

2021 <u>Aubree Raimer, Colorado-Wyoming Alliance for Minority Participation / LEAP</u>

Summer STEM Program Mentee. Nestling diet in urban and non-urban

habitats

2021 <u>Amirah Brockington</u>, Undergraduate field research assistant

Sanchez, K.A. CV 2023 5 | 7

2020-2021	<u>Michelle Mutu.</u> Colorado Wyoming Alliance for Minority Participation mentee in undergraduate research experience.
2020-2021	Alex Glennemeier, Research: Standardizing American Robin Recordings
2019-2020	Yessica Rodriguez, McNair Scholar Program Mentee. Research: Feather coloration and heat in American Robin male and females.
2019-2020	Branden Lawson, Research: Tree cover and nest survival of American Robins in urban and non-urban environments.
2019-2020	<u>Kali Thompson</u> and <u>Gabrielle Mendoza</u> Undergraduate field research assistants for several research projects
2018-2019	<u>Cameron Kennedy</u> , Research: Effects of habitat composition on avian composition.
2018-2019	Kinsey Freeman, Undergraduate research experience
2018-2019	Alexandria Colpitts, Research: Avian dawn chorus across urban and non-urban landscapes.

Westminster College SLC

2016-2017 <u>Claire Prasad</u>, Biology Undergraduate Student, Alumni Mentoring Program

Institutional service

2022 – Present	Chair, Diversity & Inclusion Committee Postdoctoral Association, UNH
2020-2022	Graduate School Representative , Enhance and Invest subcommittee, UNCO
2019	Graduate School Representative, Student First Subcommittee, UNCO
2018-2019	Graduate Student Representative, School of Biological Sciences, UNCO

Professional service - Manuscript reviews

2021	Journal of Urban Ecology
2019	Journal of Animal Behavior

Community service

2021	Graduate student panelists at Association of Field Ornithologists Café Series: Demystifying grad school: how to find, apply, and get into graduate school.
2020	Coordinator, creator, and panelist for the First-Generation Students in Graduate School Panel. University of Northern Colorado graduate school 2020 orientation
2018-2022	Founder and President of University of Northern Colorado Women In Graduate STEM (WIGS) Organization
2018-2022	Community Outreach and Education with the UNCO's Natural History Museum
2016	Committee Member, Great Salt Lake Audubon Education Committee

Professional memberships

2022 - Present The Wildlife Society
 2021 - Present Society for the Advancement of Biological Education Research
 2021 - Present American Association of University Women
 2019 - Present US-International Association for Landscape Ecology
 2019 - Present Colorado Field Ornithologists

2019 – Present Colorado Piela Officiologis
2019 – Present Animal Behavior Society

2017 - Present American Ornithological Society

TRAINING / CERTIFICATES

Pedagogical training

2022	Implicit Biases and Bystander Awareness Training
2020	Diversity, Equity, and Inclusion in Biology
2020	College Biology Course Development
2019	Teaching College Biology
2017	Teaching Assistant Development

Professional development

2021	Supporting Student Success Through Teaching & Learning, LA Learning Lab
2021	Understanding & Navigating Inclusion Through Education (UNITE) Program
	- Examining Race Relations and Racism Training
	- Exploring Equity and Including Foundations Training

- Disability & Accessibility Training

2020 Graduate Student Teaching Group, UNCO

2020 COMPASS Scientist Sentinels: Civic Engagement & Leadership Program