

Kinley Ragan, MS

kinleyragan@gmail.com

kinleyragan.weebly.com

602-326-7715

EDUCATION

Arizona State University (ASU)

M.S. Biological Sciences, Dr. Sharon Hall, GPA: 4.0

August 2020

Thesis: It All Comes Out in the Wash: Mammal Use of Riparian Corridors in Semi-Arid Sonora, Mexico

B.S. Conservation Biology & Ecology, cert: Geographic Information Sciences, GPA: 4.0

May 2019

Barrett, the Honors College at Arizona State University, Tempe, AZ

Thesis: Human Wildlife Conflict Management in a Rapidly Changing World, Director: Dr. Michael Schoon

Continuing Education:

Artificial Intelligence and Machine Learning for Ecologists, *Center for Wildlife Studies*

Dec 2022

RESEARCH EXPERIENCE *indicates paid position

Field Conservation Research Technician II*, *Arizona Center for Nature Conservation/Phoenix Zoo*

2022

- Develop and deploy 25-unit acoustic gunshot detection system for anti-poaching work in Costa Rican rainforest using RAK hardware, Internet of Things (IoT) and low-power, wide range (LoRaWAN) technologies.
- Implement acoustic sensors for bats, birds, and frogs into Costa Rica jaguar biodiversity project
- Curate and analyze acoustic and camera trap data from multiple sites in North and Central America
- Write grants and publish papers with collaborators – grants ranged from \$15,000-200,000
- Maintain field equipment including camera-traps, acoustic recorders, and data loggers

Wildlife Research Assistant*, *Arizona Center for Nature Conservation/Phoenix Zoo*

April – July 2021

- Aided in grant writing for local and international projects ranging from \$15,000 – \$200,000
- Wrote script in R to align Wildlife Insights exports with Sanderson method data analysis input
- Performed geospatial analyses for NDVI and topographic variety for AZ and Philippines projects

Sea Turtle Research Assistant, *PhD Student Janie Reavis, Dr. Jesse Senko Lab, Florida, USA*

Fall 2020

- Assisted in conducting over 40 choice experiment trials with green and loggerhead sea turtles
- Safely handled green sea turtles including transporting them to and from experimental chambers

Field Conservation Research Tech*, *Arizona Center for Nature Conservation/Phoenix Zoo*

2019-2020

- Analyzed (using R) and managed wildlife camera studies in Arizona and Sonora, Mexico about wildlife habitat use
- Supervised a team of graduate and undergraduate students in camera trap data management and analysis
- Published several reports in collaboration with US-Mexico borderland community organizations

Graduate Research*, *Dr. Sharon Hall*

2018-2020

Mammal Use of Riparian Corridors in Semi-Arid Sonora, Mexico

- Independently designed and implemented a camera trap array of 30 devices focusing on connectivity and habitat use
- Sorted, organized, managed, and analyzed data using R, several different packages, and ArcGIS
- Facilitated relationships with key stakeholders to encourage future research on land.

Undergraduate Honors Thesis, *Independent; Barrett the Honors College*

2018-2019

Human Wildlife Conflict Management in a Rapidly Changing World

- Conducted over 150 interviews in six different countries in an independently designed research project
- Analyzed conflicts at the border of major National Parks worldwide
- Organized all aspects of the study design and 10-week, 5-country travel plans to effectively execute research

Field Conservation Research Assistant*, *Arizona Center for Nature Conservation/Phoenix Zoo*

2017-2019

- Organized and sorted wildlife camera trap data from Chiricahua's, Cienega's, and northern Mexico
- Lead a team of undergraduates and graduate students to retrieve camera trap data in the field
- Trained 8 undergraduate and graduate students in camera trap data management and analysis

Andean Bear Study, *PhD Candidate Mauricio Vella, Colombia*

Aug 2018

- Trekking for five days in the paramo region of Chingaza National Park, Colombia performing camera maintenance

Wildlife Field Research Assistant*, *Phoenix Zoo*

2016-2017

- Assisted in field work and managing camera trap projects in Arizona and Mexico
- Identified and sorted native Arizona species using the Sanderson method

Research Assistant, *Thermal Adaptations Lab of Dr. Michael Angilletta*

2016-2017

- Created and tested experimental designs involving animal thermal adaptation techniques

INTERNATIONAL EXPERIENCE

- Costa Rica** 2022
- Contributed to a technology- and community-focused grant (USFWS) to establish a wildlife corridor in southern Costa Rica.
- Thailand, Australia, Nepal, South Africa, & Colombia** 2018
- Designed a 70-day, 6-country research trip to explore attitudes towards human-wildlife conflicts at major national parks.
- Conducted 150 interviews in five different languages; Analyzed & defended results
- South Africa: Johannesburg, Hamakuya Village, Kruger National Park** 2017
- Studied abroad to explore the complexity of the wildlife economy in South Africa

VOLUNTARY LEADERSHIP POSITIONS

- Social Media Chair & Recording Secretary, Arizona Chapter of The Wildlife Society** 2019-2023
- Manage social media platforms to revamp AZTWS's social media presence and increase membership (2021-2023)
- Documented and recorded official business and meeting minutes within the organization (2019-2020)
- Wildlife Reading Group Leader** 2020-2021
- Founded a bi-monthly reading group focused on the newest literature in wildlife research and methods
- Summer program reading conservation literature (Beloved Beasts by M Nijhuis)
- Road to Geneva Young Rapporteur, Environmental Peacebuilding Association** 2020-2021
- Engaged with 100 young professionals around the world on environmental peacebuilding strategies
- Attended and reported on 15 different events surrounding environmental peacebuilding, equity, and climate change
- Mentor, ASU Undergraduate Students** 2019-2020
- Western Alliance to Expand Student Opportunities (WAESO) – mentored 3 students through the scholarship program
- Mentored 9 undergrads in spring 2019. Taught wildlife identification and camera trap organization
- Organized professional development opportunities for students and tracked personal growth
- President, Central Arizona Chapter of The Society for Conservation Biology** 2017-2018
- Organized professional development meetings, events, and experiences for 145 members
- Communicated with professionals in conservation to organize fieldwork excursions
- Facilitated volunteer opportunities to support students gaining hands on experiences

NON-RESEARCH EMPLOYMENT

- Academic Associate, ASU** 2021-2022
- Graded exams and assignments and engaged with students for:
Conservation of Biodiversity, Fundamentals of Ecology, Animal Behavior, Environmental Careers, and General Biology I & II
- Video Production, Independent contract with Evergreen Education Group** Fall 2020
- Produced 5-three-minute videos using Adobe Premiere Pro announcing a hybrid conference
- Filmed zoom interviews and edited material for video announcements
- Faculty Associate, ASU – Environmental Careers & Animal Behavior** Fall 2020
- Engaged with students in exploration of their environmental careers through editing CVs, resumes, and more
- Challenged career perceptions by producing video interviews (Adobe Premiere Pro) with a diverse range of professionals
- Environmental Careers (BIO 394) & Animal Behavior (BIO 331)
- Graduate Teaching Assistant, ASU** 2019-2020
- Developed a 16-week course with Dr. Jim Collins on Conservation of Biodiversity
- Designed assignments, constructed online web pages, graded projects, effectively communicated with students
- Produced six Adobe Premier Pro videos featuring a diverse representation of environmental careers & professionals
- Residential Assistant, ASU Barrett, the Honors College** 2016-2018
- First responder to emergency situations and mentored 80+ undergraduate students
- Collaborated with professionals at ASU to build community and success among students
- Education Team, SEA LIFE Arizona Aquarium, Merlin Entertainment** 2017
- Facilitated guest learning experiences about marine life and communicated with animal care staff
- Camp Zoo Counselor, Phoenix Zoo** 2016
- Coordinated positive natural experiences and taught conservation-based curriculum to children
- Communicated effectively with campers, coworkers, and parents to ensure a safe environment for all children

COMMUNITY OUTREACH

Phoenix Zoo Teen Career Conference & Conservation Science Night	March 2022
CACSCB Student Chapter: presentation on research and professionalism	2019/2020
McDowell Sonoran Preserve: aided with design management and camera trap retrieval	2020
Camp Zoo: Camera Trap 101 weekly presentation	Summer 2019
Seeds of Stewardship: Arizona Trail Association, Patagonia Youth Center	Fall 2018/2019
TEDxASU: Boundless	March 2018
Monkey Village Volunteer, <i>Phoenix Zoo</i> , 200+ hours	2016-2018
Sea Turtle Tabling: School for Future of Innovation in Society	Nov 2017
AZGFD: Black Footed Ferret Spotighting, Aubrey Valley	2017 & 2018
Feed my Starving Children	Aug. 2016 & 2017

GRANTS & AWARDS

Panthera Grant, Small Cat Action Fund (\$9000)	2021
Successfully was awarded \$9000 towards our Borderland Ocelot study with the Phoenix Zoo and Dr. Jan Schipper.	
ASU Graduate College Fellowship (\$5,000)	2020
\$5,000 award for a deserving graduate student during Spring 2020	
Barrett Global Explorers Grant (\$10,000)	2018
“Human Wildlife Conflict Management in a Rapidly Changing World” \$10,000 grant to carry out an independently designed research project studying people’s attitudes towards human-wildlife conflict in six different national parks around the world. Successfully defended this thesis in April 2019	
Udall Scholar (\$7,000)	2018
\$7,000 scholarship from the Udall Foundation for environmental leadership and excellency	
Walton Global Studies Award (\$4,100)	2017
\$4,100 scholarship to study abroad in South Africa during summer 2017	
New American University Scholar – President’s Award (\$9,000 / yr)	2015-2019
\$36,000 over four years for academic excellence and a strong work ethic	

Additional awards:

AZTWS Continuing Education Aware (\$500, August 2022), AZTWS Continuing Education Award (\$150, August 2020), ASU Graduate Student Travel Award (\$950, Spring 2020), ASU Career Development Grant (\$550, Summer 2019), ASU Graduate Travel Award (\$550, Summer 2019), WAESO fellowship to support four underprivileged students in research (\$4,300, Summer 2019), Community Assistant (\$6,258/semester, 2016-2018), Dean’s Circle Scholarship (\$1,000 Fall 2015)

PUBLICATIONS

- Ragan K**, Schipper J, Bateman HL, Hall SJ. 2022. Mammal use of riparian corridors in semi-arid Sonora, Mexico. *Journal of Wildlife Management*: e22322. Available [here](#).
- Ragan K**, Marin G, Tellez C, Sierra-Corona R, Schipper J. 2022. Co-occurrence of four endangered mammals in the Mexico-United States borderlands: jaguar (*Panthera onca*), ocelot (*Leopardus pardalis*), beaver (*Castor canadensis*) and black bear (*Ursus americanus*). *Southwestern Naturalist*. Available [here](#).
- Teague C, Youngblood J, **Ragan K**, Angilletta M, VandenBrooks J. 2017. A positive genetic correlation between hypoxia tolerance and heat tolerance supports a controversial theory of heat stress. *Biology Letters*. 13(1). DOI: 10.1098/rsbl.2017.0309.

IN REVIEW

- Ragan K**, Walker FM, Stevens LE, Schipper J. In Prep. Advancing north: white-nosed coati’s (*Nasua narica*) range expansion in Arizona. *Small Carnivore Conservation*. Available [here](#).

IN PREPARATION

- Ragan K**, Senko J, Schipper J, Schoon M. In Prep. Human-wildlife conflict management in a rapidly changing world. Target journal: PNAS.

DIGITAL MEDIA

- Ragan K**, Allard R. 2022. Protecting the path of the jaguar. *Wild Times*. Phoenix Zoo. Available [here](#).
- Ragan K**. 2021. Around the world in <80 days and other various stories. Medium blog. <https://medium.com/@kinleyragan>
- Ragan K**. 2020. Walking among wildlife: Wildlife cameras in Sonora, Mexico. *The Arizona Wildlifer*: Winter 2020. The Arizona Chapter of The Wildlife Society. <https://aztws.com/winter2021wildlifer/>

PRESENTATIONS & POSTERS *indicates student mentee

- Ragan K**, Paine G, Gonzalez-Maya JF, Allard R, Schipper J. 2022. The shot heard round the forest: revolutionizing jaguar protection via gunshot detection in Costa Rica. Presented at *American Society of Mammologists: Tucson* on June 19th.
- Ragan K**, Hall SJ, Schipper J. 2020. Mammal corridor use of semi-arid washes in the Madrean Archipelago of Sonora, Mexico. Contributed Talk. Presented at *Ecological Society of America 2020* on July 29th.
- Ragan K**, Hall SJ, Schipper J. 2020. Mammal corridor use of semi-arid washes in the Madrean Archipelago of Sonora, Mexico. Speed Talk. Presented at *North American Congress for Conservation Biology* on July 29th.
- Bing I*, **Ragan K**, Hall SJ. 2020. Water presence along washes in Los Ojos, Sonora, Mexico. Poster. Presented at the *Western Alliance to Expand Student Opportunities* on March 3rd.
- Rodriguez-Garcia R*, **Ragan K**, Hall SJ. 2020. Relationship between animal presence and water presence in washes in Sonora, Mexico. Poster. Presented at the *Western Alliance to Expand Student Opportunities* on March 3rd.
- Kenny D*, **Ragan K**, Hall SJ. 2020. Water presence in washes after storms in semi-arid Sonora, Mexico. Poster. Presented at the *Western Alliance to Expand Student Opportunities* on March 3rd.
- Ragan K**, Schoon M. 2019. Human-wildlife conflicts in a rapidly changing world. Poster. Presented at *Barrett, the Honors College Honor's Symposium* on April 10th.
- Ragan K**, Hall SJ, Schipper J. 2019. Washes as movement corridors in semi-arid Sonora, Mexico. Poster. Presented at the *Joint Annual Meeting for the Arizona and New Mexico Wildlife Societies* on Feb 8th.

GUEST LECTURES

- Ragan K**. 2020. Doing your own thang: Undergraduate to a 4+1 masters. Presentation, *Arizona State University*. Biodiversity of Conservation class on October 6th.
- Ragan K**. 2019. The Research Journey: Wildlife Camera Trapping. Presentation, *Arizona State University*. Biodiversity of Conservation class on October 10th.

INVITED & PUBLIC SEMINARS

- Ragan K**. 2022. Choose your own adventure. Virtual Presentation with *Arizona Center for Nature Conservation/Phoenix Zoo* on March 26th.
- Ragan K**. 2020. Sips with Scientists: Wildlife Camera Trapping. Virtual Presentation with *Arizona Sonora Desert Museum* on December 15th.
- Ragan K**. 2019. Human-Wildlife Conflict Management in a Rapidly Changing World. Beatitudes Earth Day at *Beatitudes Campus of Care* on April 26th.

SKILLS & CERTIFICATIONS

Wilderness First Responder, CPR, & EpiPen certified, *NOLS*, active until Sept 11th, 2024

R statistical package	IoT, LoRaWAN, RAK comprehension
Camera Trap & Acoustic Management	Video Production (Adobe Premier Pro & iMovie)
QGIS, arcgis, Basecamp, Google Maps	Avid Hiker (23 miles in a day)
Camera Trap Analysis	Backpacker & Camper
Wildlife Insights	GPS Tracking & Navigation
IRB Certification	Small Mammal Trapping
Survey Development & Construction	Off Road & Manual Driving
Community Outreach Coordinator	Data Organization & Management
Statistical Analyses (occupancy, PCA, ANOVA, etc.)	Google Docs, Sheets, Slides

Memberships: Society of Conservation Biology, The Wildlife Society, Arizona Chapter of the Wildlife Society, Ecological Society of America, Environmental Peacebuilding Association

Interests: backpacking, animals, dad jokes, exploring, traveling, learning, people, reading, birding

References: Dr. Jan Schipper, Dr. Garth Paine, Ruth Allard, Dr. Michael Schoon, Dr. Jesse Senko; contact information happily provided upon request