

Anyll Markevich

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Recent environmental studies graduate pursuing academia, focusing on evolutionary biology and theoretical ecology.

Education

B.S. in Environmental Studies, Prescott College, AZ	Graduated May 2025
Faculty Advisor: Dr. Molly Bigknife Antonio	
GPA: 4.0/4.0	
4-year program completed in 3 years	
Non-Degree Coursework, University of Colorado Boulder, CO	2024–2025
27 Credit Hours over 7 Courses	
GPA: 4.0/4.0	
Counted towards B.S. at Prescott College	
Homeschooling through High School	Graduated May 2022
GPA: 4.0/4.0	
Focused on self-directed learning in environmental studies and animal behavior	
Non-Degree Coursework, Front Range Community College, CO	2020
4 Credit Hour Course	
GPA: 4.0/4.0	
Counted towards B.S. at Prescott College	

Publications

Peer-Reviewed Publications

- Berl, R. E. W., Sekar, S., Markevich, A., Camara, C., & Niemiec, R. M. (2022). Assessing the impacts of normative and efficacy-based messaging on the social diffusion of conservation science. *Conservation Science and Practice*, 4(4). <https://doi.org/10.1111/csp2.12647>
- Gielstra, D., Kelly, J., Markevich, A., Butler, D. R., Hunkins, A., Gielstra, E., Cerveny, N. V., Gielstra, J., Moll, H. L., Oberding, T. J., & Guerrero, K. (2025). Exploring Zoogeomorphological Landscapes: Enhancing Learning Through Virtual Field Experiences of Beaver Ponds Along the Red Eagle Trail, Glacier National Park, Montana, USA. *Wild*, 2(2), 9. <https://doi.org/10.3390/wild2020009>

Pre-Publications

- Markevich, A., Jones, S. R., Markevich, C. G., & Seastedt, T. R. (2024). *Cheatgrass, Mammals, Birds, Butterflies, and Wildfire: A Study of Ecosystem Interactions* [Unpublished Manuscript]. ResearchGate. <https://doi.org/10.13140/RG.2.2.14486.77126>

Conference Presentations

- Edwards, A., George, A. D., Markevich, A., Dolinski, L., Reyes, F. J. M., & Meltzer, L. (2025, January 6–10). Critical Waterbird Habitat Mapping in Two Ramsar Sites in Sonora, Mexico [Poster Presentation]. The Waterbird Society and Pacific Seabird Group Joint Meeting, San José, Costa Rica.
<https://psg.wildapricot.org/resources/Documents/WBS%20PSG%202025/2025%20Abstract%20Book%2020241223.pdf>
- Markevich, C. G., & Markevich, A. (2025, October 1). *Community-initiated enhancement of US Forest Service prescribed burn through volunteer weed management* [Poster Presentation]. The 11th World Conference on Ecological Restoration (SER2025), Denver, CO, USA.

Reports

- Markevich, A., Jones, S. R., & Markevich, C. G. (2022). *Impacts of Cheatgrass on Mammal, Bird, and Butterfly Populations in a Rocky Mountain Foothills Grassland*. Boulder County Parks & Open Space. <https://assets.bouldercounty.gov/wp-content/uploads/2020/12/cheatgrass.pdf>
- Markevich, A., Jones, S. R., Markevich, C. G., & Seastedt, T. R. (2022). *Cheatgrass, Mammals, Birds, Butterflies, and Wildfire: A Study of Ecosystem Interactions*. Boulder County Parks & Open Space. <https://assets.bouldercounty.gov/wp-content/uploads/2024/02/cheatgrass-wildlife-wildfire.pdf>

Opinion Pieces and Letters to the Editor

- Markevich, A. (2022, July 18). Turning the tables. *The Mountain-Ear*.
<https://www.themtnear.com/articles/turning-the-tables/>
- Markevich, A. (2022, July 19). When dogs are around, moose pose a greater danger. *Longmont Times-Call*. <https://www.timescall.com/2022/07/19/anyll-markevich-when-dogs-are-around-moose-pose-a-greater-danger/>
- Markevich, A. (2022, July 28). Opinion Letters: Dogs and moose. *Boulder Weekly*.
<https://archives.boulderweekly.com/opinion/letters/letters-7-28-22/>
- Markevich, A. (2022, November 16). Letters to the editor: Cloud seeding may be harmful. *Boulder Daily Camera*. <https://www.dailycamera.com/2022/11/16/letters-to-the-editor-cloud-seeding-may-be-harmful-camping-ban-is-cruel-womens-rights-are-important-archdioceses-guidance-is-harmful/>

Interests

- Intersection of empirical and theoretical research on evolution, population structure, speciation, genetics of behavioral traits, and plant community composition.
- Collaboration between communities and scientists through methodologies such as science communication and community conservation.

Research Skills

Field

Study design, mammal identification, bird identification, plant identification, behavioral observation, mammal and bird monitoring, vegetation surveys, camera traps

Analysis

Statistical analysis, programming (R, Python, Rust, Swift, Bash, Java), remote sensing, GIS (QGIS, SAGA)

Conservation Approaches

Community conservation, invasive plant removal, stream restoration, advocacy, rewilding, animal reintroduction

Employment

Education Data Analyst, University of Colorado Boulder 2025–Present

Collected and managed data on educational outcomes for students in an evolutionary biology course in the Ecology and Evolutionary Biology department. Conducted analyses to understand student trajectories through the course, such as using ordination techniques to map changes in the concepts students presented in assignments. This information will be used to inform future teaching methodologies.

Resident Advisor (RA), Prescott College 2023

Ensured resident safety and engaged in community organizing for Prescott College student housing.

Experience

Cheatgrass, Wildlife, and Wildfire Research Project 2019–Present

As lead researcher, coordinated field efforts, analysis, and report writing for a two-year county-funded research project. Deployed remote sensing of mammal species using camera traps and conducted vegetation surveys across 1000 sampling points. Participated in bird point counts and butterfly transect counts. Managed data and ran statistical analyses. Led writing of a pre-publication manuscript now being prepared for peer-reviewed publication. Developed a custom iPad app in Swift to streamline vegetation data entry, saving over 100 person-hours of fieldwork. (see Publications: Markevich et al., 2024)

Regular Yellowstone National Park Visitor 2015–Present

Observed wolves and other wildlife as a yearly visitor to Yellowstone National Park. Tracked and observed large carnivores and scavengers through spotting scopes for over 100 hours. Regularly accompanied and interacted with wolf researchers and experts. Developed in-depth knowledge of wolf behavior and Yellowstone wolf pack history. Frequently aided visitors in observing wolves and provided educational information on wolf behavior and conservation.

Virtual Learning Experiences in Beaver Habitat Paper 2024–2025

Provided ecological expertise for a paper on a pedagogical framework that utilizes virtual learning experiences to increase college student ecological literacy in communities where field trips are logistically impossible. The paper uses the exploration of beaver habitats in Glacier National Park as a case study to apply this teaching method. As third author, wrote sections about beaver ecology and their importance to climate resilience. This paper is in press with Wild. (see Publications: Gielstra et al., 2025)

Baccalaureate Presentation at Prescott College 2025

Presented senior project to an audience of faculty, staff, students, and student families alongside five other graduating students selected to represent the work done at Prescott College. (see Presentations: Markevich, 2025b)

Community-Driven Weed Removal Project 2025

Supported the organization of a volunteer-driven weed removal program to enhance restoration following a US Forest Service prescribed burn. Prepared materials documenting

the project for presentation at the 11th World Conference on Ecological Restoration. (See Publications: Markevich & Markevich, 2025)

Waterbird Monitoring Program at Prescott College's Kino Bay Center 2024

Collaborated with an international non-profit conservation research team as their GIS expert to highlight the importance of mangroves and mudflats to migratory shorebirds. Developed and applied machine-learning-based remote sensing methodology to high-resolution multispectral satellite imagery in order to map habitat types in the Humedales de la Laguna La Cruz Ramsar Site in Mexico. These maps were used by the Kino Bay Center to support community conservation efforts, ultimately leading to a poster presentation at the Waterbird Society & Pacific Seabird Group 2025 Joint Meeting (see Publications: Edwards et al., 2025). Designed and tested methodology to record spatial distribution of spotting-scope observations of waterbird species within estuaries. Participated in shorebird surveys. Accompanied camera trap monitoring of IUCN Red List Vulnerable Craveri's murrelet, brown pelican nest monitoring, right whale population monitoring using photo identification of dorsal fins, and seabird surveys across multiple estuaries. (see Relevant Press Appearances: Meltzer et al., 2024 and *Linking wetland and shorebird conservation*, 2024)

Prescott College Field Experiences 2023–2024

Aided in data collection on aspen regrowth on The Nature Conservancy's Hart Prairie Reserve in Arizona's San Francisco Peaks area. Participated in the design and implementation of stream restoration projects, including removal of invasive Siberian Elm, planting of native riparian species, and bank stabilization using branches. Learned plant identification during field excursions in Arizona ecosystems ranging from alpine forests to the Sonoran Desert. Trained in group wilderness leadership and safety during a 6-day backpacking trip in undeveloped regions of Grand Canyon National Park. Visited a cottonwood survival study site investigating drought resistance in hybrids of Narrowleaf and Fremont Cottonwoods.

Messaging and the Social Diffusion of Conservation Science Paper 2019–2022

Conducted surveys of a convention's attendees as part of a pilot study and refined the methodology based on results. Collected data at a festival by recording study participants' responses to varied science-based informational texts about wolf conservation. Conducted categorization of qualitative responses and aided data interpretation following methodology alterations due to the COVID-19 pandemic. This study is now published in a peer-reviewed journal. (see Publications: Berl et al., 2022)

Wintering Raptor Surveys 2017–2020

Identified predatory bird species and recorded spatial data during Boulder County Nature Association Wintering Raptor Surveys.

Pathways Conference 2019

Attended the Pathways Conference organized by Colorado State University's Center for Human-Carnivore Coexistence, an academic platform for discussing applications of the human dimensions of wildlife discipline in conservation.

Presentations

Markevich, A. (2020a, January 25). *Wild Patagonia* [Presentation]. Boulder County Nature Association, Boulder George Reynolds Branch Library, Boulder, CO.

Markevich, A. (2020b, February 24). *Wild Patagonia* [Presentation]. Denver Field Ornithologists, Denver, CO. <https://archive.org/embed/dfo202002&autoplay=1>

- Markevich, A. (2020c, December 10). *Wild Patagonia* [Virtual Presentation]. Colorado Native Plant Society. <https://conps.org/home-2/events/event-listing#!/event/2020/12/10/boulder-chapter-virtual-meeting-wild-patagonia>
- Markevich, A. (2021, April 27). *Wild Patagonia* [Virtual Presentation]. Boulder County Audubon Society. <https://youtu.be/L-LuJFIjLRo>
- Markevich, A., & Jones, S. R. (2021, December 16). *Impacts of Cheatgrass on Mammal, Bird, and Butterfly Populations* [Virtual Presentation]. Boulder County Parks and Open Space Advisory Committee (POSAC). <https://youtu.be/iSZBvOGG-Oc>
- Markevich, A. (2025a, April 18). *Cheatgrass, Mammals, Birds, Butterflies, and Wildfire: A Study of Ecosystem Interactions* [Presentation]. EBIO Undergraduate Research Symposium, University of Colorado Boulder, Boulder, CO.
- Markevich, A. (2025b, May 9). Math and Computation in Conservation [Senior Project Presentation]. Baccalaureate, Prescott College, Prescott, AZ.

Relevant Coursework

Advanced Placement Tests

- AP Biology
- AP Computer Science A
- AP Chemistry
- AP English Language and Composition

Front Range Community College

- Environmental Science with Lab

Prescott College

- Conservation Biology (emphasis on community conservation)
- Geographic Information Science, Advanced (emphasis on remote sensing)
- Restoration Ecology: Watersheds of the Southwest (emphasis on stream restoration)
- Waterbird Conservation in Sonora, Mexico
- Environmental Policy in the Context of Wolf Reintroduction
- Natural History and Ecology of the Southwest (8 Credits, emphasis on plant identification)
- Environmental Topics for Outdoor Educators and Advocates
- Data Analysis and Academic Writing
- Soil and Compost Science
- The Rust Programming Language
- The Role of Theoretical Ecology and Computer Simulation in Conservation Efforts (project)
- Software Development for Scientific Libraries and Packages

University of Colorado, Boulder

- Intro to Statistics and Quantitative Thinking for Biologists
- Quantitative Genetics (mixed graduate / undergraduate class)
- Evolutionary Biology
- Calculus (I & II)
- General Physics I

Community Service and Participation

Rocky Mountain Wolf Project	2017–2019
Volunteered frequently for the Rocky Mountain Wolf Project, educating the public at local fairs and markets on the ecological importance of wolves and opportunities for coexistence in support of wolf reintroduction to Colorado.	
WildEarth Guardians	2023
Collaborated with WildEarth Guardian's advocacy staff to encourage Colorado Parks and Wildlife to adopt conservation-centric approaches to wolf reintroduction, particularly focusing on promoting programs incentivizing ranching communities to implement coexistence measures.	
Endangered Species Coalition	2020
Participated in media creation and advocacy for the Endangered Species Coalition's Western Slope Connectivity Project to encourage the creation of wildlife crossings.	
Community Leadership	2019–2021
Co-led a neighborhood project organizing community members to pull invasive weeds, especially cheatgrass, in community gathering spaces. The weeds were properly disposed of in municipal composting facilities.	
Boulder County Audubon Teen Naturalists	2017–2019
Participated actively in the Boulder County Audubon Teen Naturalist Program.	

Grants, Scholarships, Awards, and Certificates

Research Grants	
Boulder County Small Grants	2020
Boulder County Nature Association Research Grant	2020
Scholarships	
Boulder County Audubon Society Teen Birding Camp Scholarship	2019
Knaup Family Scholarship at Prescott College	2023
Awards	
Boulder County Audubon Society Community Conservation Award	2019
AP Scholar with Distinction	2022
Certificates	
Black Belt in Ki-Aikido (following 12 years of practice)	2022
Pending Applications	
Applied to the Canada Graduate Research Scholarship for Master's Programs	2025
Applied to the National Science Foundation Graduate Research Fellowship Program	2025

Relevant Press Appearances

Meltzer, L., Reyes, F. J. M., & Dolinski, L. A. (2024). *Waterbird Monitoring Program Final Report 2023–2024*. Prescott College Kino Bay Center for Cultural and Ecological Studies.
https://drive.google.com/file/d/18JJ5yuYyVQ1hJciUhEoOH37FjVuVgfQ1/view?usp=share_link

- Linking wetland and shorebird conservation: Point Blue Conservation Science and MSP+ in Kino Bay. (2024, February). *The Kino Bay Center Newsletter*.
https://drive.google.com/file/d/1LiTSXMfKW1wUv1p5FlF4g-3IWRxJV89t/view?usp=share_link
- Jones, S. R. (2020, October 1). *Teen Naturalists Uncover Tallgrass Treasures*. Boulder County Audubon Society. <https://www.boulderaudubon.org/articles/teen-naturalists-uncover-tallgrass-treasures>
- Nichta, T. (2018, December 6). Young Conservationist Makes a Difference. *Merlin Tuttle's Bat Conservation*. <https://www.merlintuttle.org/young-conservationist-makes-a-difference/>

Languages and Nationalities

English and French native speaker
Citizen of the United States of America, Canada, and France

Other Skills and Interests

Photography, Argumentative and Creative Writing, Graphic Design, Video Editing, VFX, 3D Graphics

References

Dr. Andrew Martin

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Dr. Molly Bigknife Antonio

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Dr. Timothy Seastedt

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