

Elena Graciela Dosamantes

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Education

PhD, Ecology, Management, and Restoration of Rangelands Emphasis

The University of Arizona, Tucson, Arizona

August 2021 - Present

MS, Rangeland Ecosystem Science.

Colorado State University, Fort Collins, Colorado

August 2017 - December 2021

BS, Natural Resources: Ecology, Management, and Restoration of Rangelands Emphasis

The University of Arizona, Tucson, Arizona

January 2015 - August 2017

AFA, Visual and Performing Arts with Honors: Dance Emphasis

Pima Community College, Tucson, Arizona

August 2011 - December 2014

AFA, Liberal Arts

Pima Community College, Tucson, Arizona

August 2011 - December 2014

Work Experience:

Graduate Research Assistant

Social-Ecological Systems Laboratory

- Created a database of invasive plants of North America
- Working on a systematic review of invasive plant literature
- Using R to sort and filter data

August 2021 - Present

State Range Technician

USDA-NRCS and The Kohala Center

- Assisted in the development of updated Ecological Site Descriptions (ESD) for the state of Hawaii.
- Aided in developing and calibrating the Determining Indicators of Pasture (DIPH) tool for use in the state of Hawaii.
- Taught workshops and corresponding field trainings to field office staff.
- Contributed to the writing and production of informational videos on the two-lined spittlebug.
- Created website on the two-lined spittlebug (TLSBHawaii.com)
- Set up clipping cages and collect monthly data for a forage yield study.
- Helped design, implement, and monitor multiple experimental field plantings.
- Gathered and created content for an updated plant identification field guide for the Hawaiian Islands.
- Lead review committee for plant identification field guide.
- Trained and lead a crew of Earth Team Volunteers.
- Gave Soil Climate Analysis Network (SCAN) stations routine maintenance when necessary.
- Wrote technical notes on: DIPH Tool, Safety Around Livestock, and Pests of Hawaii.

January 2020 – August 2021

Research/Laboratory Assistant
School of Natural Resources and the Environment

October 2019 - January 2020

The University of Arizona, Tucson, AZ.

- Compiled data and assisted with analysis.
- Wrote content material for RangelandsGateway.org

Intern

May 2019 - September 2019

Colorado State University Extension

Colorado State University, Fort Collins, CO.

- Collected, reviewed, and analyzed historical data on wild horses of western Colorado.
- Presented poster of results at annual CSU Extension Forum.

Graduate Research Assistant
Rangeland Social-Ecological Systems Laboratory

August 2017 - August 2019

Colorado State University, Fort Collins, CO.

- Contributed to a systematic review of rangeland social science in North America, including developing search criteria, reviewing, and coding articles in English and Spanish, and participating in manuscript development.
- Designed and carried out qualitative social science research (semi-structured interviews) on stakeholder values and attitudes related to wild horses and wild horse management methods.
- Coded and interpreted qualitative interview data for MS thesis.
- Made public presentations to stakeholders at local Land Use Board.
- Wrote MS thesis and corresponding journal articles (in progress).

Undergraduate Crew Leader
Archer Laboratory

September 2015 - April 2017

The University of Arizona, Tucson, AZ.

- Assessed woody and herbaceous biomass and composition using plots and transects.
- Evaluated recovery of velvet mesquite from herbicide treatment.
- Quantified woody debris contribution to carbon storage potential.
- Collected and sorted soil samples.
- Developed proficiency in the use of GPS receivers.
- Identified and plotted rodent burrows.
- Completed systematic search for endangered species
- Supervised and instructed teams of 2-3 undergraduate students in biological data collection techniques as part of federally funded project to investigate ecosystem impacts of brush control on Arizona rangelands.
- Trained student technicians on data collection and processing techniques related to vegetation and soils.
- Recommended and implemented procedures that improved data collection efficiency and team function.

Public Art Program Assistant
The University of Arizona Museum of Art

October 2015 - May 2017

The University of Arizona, Tucson, AZ.

- Monitored public art pieces throughout campus, reporting and preventing damage.
- Worked with supervisor on strategies to prevent future damage to public art.
- Served as student representant at Public Art Program Meetings.

Student Monitor

May 2015 - May 2017

The University of Arizona Museum of Art

The University of Arizona, Tucson, AZ.

- Provided customer service to and museum information to guests.
- Monitored the museum to maintain a safe environment for the art and the guests.
- Administered museum admission and gift shop sales.
- Translated for Spanish speaking guests.
- Worked with museum archivist on Spanish translation of art labels and tour guides.

Publications

- Bruno, J., Jamsranjav, C., Jablonski, K. E., Dosamantes, E. G., Wilmer, H., & Fernández-Giménez, M. E. (2020). The Landscape of North American Rangeland Social Science: A Systematic Map. *Rangeland Ecology & Management*, 73(1), 181–193. <https://doi.org/10.1016/j.rama.2019.10.005>
- Dosamantes, Elena G. "Wild Horses in Northwestern Colorado: Cultural Values of Wild Horses and Attitudes Towards Wild Horse Management Methods." ProQuest Dissertations Publishing, 2021. Print.

Posters

- Dosamantes, E.G, Fernandez-Gimenez, M.E. 2020. Wild horses: Values and attitudes towards management methods. Society for Range Management Annual Meeting, Feb 17, 2020, Denver, CO.*
- Lien, A., Dosamantes, E.G., Conley, J., Hutchinson, B., Howery, L., Ruyle, G., Noelle, S., Pfander, J., Briske, A., Grace, J., Hall, A., McReynolds, K., Schalau, J. 2020. Exploring Public Land Grazing. Redesigning the *Global Rangelands* website to effectively reach multiple audiences. Society for Range Management Annual Meeting, Feb 17, 2020, Denver, CO.
- Bruno, J., Dosamantes, E.G., Jablonski, K., Wilmer, H., Fernandez-Gimenez, M.E. 2018. A systematic review of North American rangeland social science. Society for Range Management Annual Meeting, Jan 28-Feb 1, 2018, Sparks, NV.
- Dosamantes, E.G. 2016. Wild Horses and Burros: Population Growth Rates and Influencing Factors. Poster presented at The University of Arizona's 21st Annual Undergraduate Research Opportunities Consortium's Research Conference. Aug 8, 2016, Tucson, AZ.*

Presentations

- Dosamantes, E.G. 2019. Wild horses: Values and attitudes towards management methods. Research presented at Moffat County Land Use Board Meeting. Apr 8, 2019. Craig, CO.*
- Dosamantes, E.G. 2016. Wild Horses and Burros: Population Growth Rates and Influencing Factors. Paper presented at The Undergraduate Research Opportunities Consortium's Summer Colloquia. Aug 2016, Tucson, AZ.*

Other Experience

International Year of Rangelands and Pastoralists (IRYP) 2026

August 2017 - December 2017

- International support group member
- International communications team member
- Regional/North America support group member
- Regional/North America communications team member

- Social media manager
- Collected video interviews of Mexican ranchers for IYRP website
- Co-led 'Campfire Conversation' at Society for Range Management Annual Meeting 2022.

Climate Change Website

August 2017 - December 2017

*Student, Department of Sociology,
Colorado State University, Fort Collins, CO.*

- Reviewed and critiqued *Act on Climate* website looking for consistency with best practices in social marketing for behavior change and providing recommendations for improvement based on insights from sociology and psychology.
- Learned about key features of successful social marketing campaigns and effective messaging.
- Provided page-by-page feedback re: site organization, messages, branding placement, improving the call to action, and consistency between images and messages.

Monarch Project

August 2017 - December 2017

*Student, Department of Sociology,
Colorado State University, Fort Collins, CO.*

- Used systems thinking, design thinking, and sociological theories of change management to assess opportunities for improving conservation of monarch habitat.
- Interviewed stakeholders about barriers and benefits.
- Assessed the opportunity for change in one landscape sector and compared the relative potential of various change tools and interventions to influence actors and systems.
- Assisted instructor by introducing Sociology undergraduates to the fields of Natural Resources and Rangeland Management.
- Assisted instructor by training Sociology undergraduates in the process of searching for, reviewing, reading, and using scientific articles relevant to the project.

Wild Horses and Burros: Population Growth Rates and Influencing Factors

January 2016 - August 2016

*Undergraduate Researcher, UROC-PREP/STAR Program,
The University of Arizona, Tucson, AZ.*

- Designed research project.
- Collected and organized data from BLM's annual wild horse and burro reports (eg. HMA name, acreage; estimated populations, etc).
- Obtained precipitation data through the University of Arizona's Standardized Precipitation Index (SPI) Tool.
- Executed calculations using MS Excel to estimate population density and population growth rates.
- Used linear regression to determine relationships between population growth rates and influencing factors (direction of relationship and strength of relationship).
- Reported results in written paper, presentation, and poster presentation.

Honors and Awards:

Outstanding Graduating Senior,

April 2017

*School of Natural Resources and the Environment,
The University of Arizona, Tucson, AZ.*

**Michelle E. Schmutz Memorial
Scholarship,**

December 2016

School of Natural Resources and the Environment,
The University of Arizona, Tucson, AZ.

Dean's Honorable Mention List,

May 2015

School of Natural Resources and the Environment,
The University of Arizona, Tucson, AZ.

Earth Week 2022

Tucson, Arizona

- Planning team member
- Flier designer

Volunteer Work:

SNRExpo 2022

Tucson, Arizona

- Planning team member
- Flier designer

Arizona Insect Festival

Tucson, AZ

- October 2019: USDA Bee Lab/
Build-a-Bug Booth
- September 2016: Arthropod
Zoo
- September 2015: E-Butterfly
Booth

Boys and Girls Club

Nogales, Sonora, Mexico

- 2013 - 2017: Guest ballet instructor
- June 2017: Science Summer Course Instructor

**Undergraduate Range Management
Exam**

Tucson, AZ

- 2020: Coach
- 2022: Coach

**Biosphere2: Water, Atmosphere, & Life Dynamics
(WALD)**

Tucson, AZ

- December 2019: Research Assistant

Hawaii Cattlemen's Council

Student Member

Memberships:

January 2020 - August 2021

Society for Range Management

Student Member

October 2016 - Present

Other:

Languages: Native proficiency Spanish (speaking, reading, and writing).

Software: MS Office, Google Apps, NVivo, SPSS, Nature's Notebook app, ESRI ArcGIS, R.

Certifications: Beef Quality Assurance Program (April 2017 - April 2020).

Competitions: Undergraduate Range Management Examination (February 2017).

Training: Conservation Assessment Ranking Tool (CART).

Horsemanship: Western riding, weanling training.

Larry Howery, PhD,
Professor and Extension Specialist,
Rangeland Ecology and Management,
School of Natural Resources and the
Environment,
The University of Arizona, Tucson, AZ.
E-mail: lhowery@ag.arizona.edu
Phone: (520) 621-7277

Mitchel McClaran, PhD,
Professor of Range Management,
School of Natural Resources and the
Environment,
Director for Research, Santa Rita
Experimental Range,
Associate Director, Arizona Experiment
Station,
College of Agriculture and Life Sciences,
The University of Arizona, Tucson, AZ.
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References:

Carolyn Wong, MS,
PIA Rangeland Specialist,
USDA-NRCS,
Waimea, HI.
E-mail: carolyn.wong@usda.gov
Phone: (808) 990-9674

Melanie Willich, PhD,
Director of Applied 'Āina-Based Agriculture,
The Kohala Center,
Waimea, HI.
E-mail: mwillich@kohalacenter.org
Phone: (808) 887-6411