

**TIFFANY J. PEREIRA**  
Assistant Research Scientist, Ecologist  
Desert Research Institute  
Earth and Ecosystem Sciences

Division of Earth and Ecosystem Sciences  
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**PROFESSIONAL PREPARATION**

University of Southern California	Los Angeles, CA	Environmental Studies	B.A.
University of Nevada, Las Vegas	Las Vegas, NV	Biological Sciences, Ecology and Evolutionary Biology	M.S.

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**OVERVIEW**

Ms. Pereira is an ecologist and scientific illustrator specializing in the flora and fauna of the desert southwest. She has > 11 years of experience specializing in natural resource management, wildlife management, threatened and endangered species management and springs and seeps management. She has extensive field surveying and monitoring experience as well as technical writing experience for local, state, and federal reporting. She has implemented and/or helped developed protocols and monitoring plans for multiple federal agencies. Her research areas of expertise include flora and fauna interactions, seed and germination ecology, rare plant ecology, soil seed banks, and restoration ecology. As both a researcher and artist, she is also interested in graphic design and illustration for science communication. She provides these services, along with outreach and educational services to DRI and local agencies. She has completed illustration commissions for the Nevada State Museum, Las Vegas, research publications, and private entities.

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**PROFESSIONAL EXPERIENCE**

2019 – Present *Assistant Research Scientist*, Desert Research Institute (DRI), Division of Earth and Ecosystem Sciences, Las Vegas, NV.

2017 – 2019 *Graduate Teaching Assistant*, University of Nevada, Las Vegas (UNLV), School of Life Sciences, Las Vegas, NV.

2016 – 2016 *Environmental Specialist II*, SWCA Environmental Consultants, Las Vegas & NTTR, NV (*seasonal position to start graduate level coursework*)

2015 – 2016 *Field Biologist*, Knight and Leavitt Associates, Las Vegas, NV.

2014 – 2015 *Wildlife Biologist*, Redhorse Corporation, DPW Environmental Division. Fort Irwin, CA

2012 – 2013 *Desert Environmental Technician*, Aerotek, Moapa Southern Paiute Solar Project, Moapa, NV

- 2011 – 2012     *Natural Resource Management Intern*, National Park Service (NPS), American Conservation Experience, Boulder City, NV.
- 2011 – 2011     *Conservation Intern*, Bureau of Land Management, American Conservation Experience, Alpaugh, CA.
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## PUBLICATIONS AND PRESENTATIONS

- (*In review*) Bailey, L. N., **Pereira, T. J.**, Sion, B., Gentilcore, D. M., Antoninka, A., Bowker, M. A., Providing Context for Advancements in Arctomecon Californica Conservation: A Comprehensive Literature Review with Case Studies, *Western North American Naturalist*.
- **Pereira, T.J.**, (2023): Uncommon Ground: Ecology of Place Baseline Assessment and Adaptive Plan. Draft 1. Prepared for Luke Lozier. Blue Diamond, NV.
- **Pereira, T.J.**, (2022): Mojave Desert Tortoise Vulnerability Assessment of Tule Springs Fossil Beds National Monument, Final Report. Prepared for National Park Service, Tule Springs Fossil Beds National Monument: Boulder City, NV, Under Contract P21AC10407
- **Pereira, T. J.**, (2022): Holistic Inventory of Fuels and Vegetation Change at Kasha-Katuwe Tent Rocks National Monument (KKTR): Quantification of Tree Die-Off and Fire, Prepared for the Bureau of Land Management, New Mexico State Office: New Mexico, Under Contract L17AC00111
- **Pereira, T. J.**, (2022): Nevada Department of Transportation Rare Plant Mitigation Research I-15 Highway Expansion., Prepared for Nevada Department of Transportation: Las Vegas, Under Contract P219-22-013
- **Pereira, T. J.**, Boisramé, G., Gentilcore, D. M., Hausner, M. B., Sion, B., 2022: Integrated Natural Resources Management Plan: U.S. Army Garrison Fort Hunter Liggett, California, Prepared for Department of the Army, US Army Garrison Fort Hunter Liggett: Fort Hunter Liggett CA, under contract W9126G2020040
- **Pereira, T. J.**, Boisramé, G., Gentilcore, D. M., Hausner, M. B., Sion, B., 2022: Integrated Natural Resources Management Plan: Parks Reserve Forces Training Area, California, Prepared for Department of the Army, US Army Garrison Fort Hunter Liggett: Fort Hunter Liggett CA under contract W9126G2020040
- **Pereira, T. J.**, Boisramé, G., Gentilcore, D. M., Hausner, M. B., Sion, B., 2022: Soil Erosion and Sediment Control Component: U.S. Army Garrison Fort Hunter Liggett, California, Prepared for Department of the Army, US Army Garrison Fort Hunter Liggett: Fort Hunter Liggett CA, under contract W9126G2020040
- **Pereira, T. J.**,(2022). The Zero Year: Defining Drought Through Art and Science, Invited Symposia, Southern California Academy of Sciences Annual Meeting: Cal State Fullerton, Fullerton, CA. May 6, 2022
- **Pereira, T. J.**, Boisramé, G., Gentilcore, D. M., Hausner, M. B., Sion, B., 2022: Vegetation Management Plan: Parks Reserve Forces Training Area, California, Prepared for Department of the Army, US Army Garrison Fort Hunter Liggett: Fort Hunter Liggett CA, under contract W9126G2020040
- Wilkening, J., Kobelt, L., **Pereira, T. J.** (2021). Climate Change Vulnerability Assessment of Imperiled Plants in the Mojave Desert, *Endangered Plants*, 10.5772/intechopen.95783

- Gentilcore, D. M., **Pereira, T. J.**, (2021). Threatened and Endangered Plant Survey Report for the Proposed Goblin Valley State Park Expansion, Prepared for The Bureau of Land Management, Price Field Office: Utah
- **Pereira, T. J.**, Moine, J., (2021). Biological Resources Survey Report for Red Rock Canyon National Conservation Area Visitors Center Well head and Waterline Replacement, Prepared for Wadley Construction: Las Vegas, NV, Under Contract 21-002-DRI-3692
- **Pereira, T. J.**, Chiquoine, L. O., Larranaga, A. J., Abella, S. R. (2021). Seed germination of a rare gypsum-associated species, *Arctomecon californica* (Papaveraceae), in the Mojave Desert, *Journal of Arid Environments*, 184, 104313, <https://doi.org/10.1016/j.jaridenv.2020.104313>
- **Pereira, T. J.**, (2021): The Art of Science, The Society for Ecological Restoration (SER) Southwest Chapter Annual Meeting: [Virtual], November 2021.
- **Pereira, T. J.**, (2021): The Art of Science, NV STEAM Conference: [Virtual], February 6, 2021
- **Pereira, T. J.**, Jones, K. B. (2020). Wildlife Strike Vulnerability Assessment for Airfields on the Tonopah Test Range, Nevada, DRI Publication No. 71003
- **Pereira, T.J.** (2020). Biological Resources Survey Report for a Proposed Temporary Tower and Cabling on the Nevada Test and Training Range, Nevada. Submitted to: United States Air Force DAF/Tonopah Test Range Operations Office. Las Vegas, NV.
- **Pereira, T. J.**, Abella, S. R. (2019). The Art of Science: Using Soil Seed Bank Research and Scientific Illustration to Create a Novel Identification Guide for Mojave Native Plants, Society for Ecological Restoration, Southwest Chapter Annual Conference: Tucson, Arizona, November 8, 2019- November 10, 2019
- **Pereira, T.J.** (2015). Annual Monitoring of Lane Mountain Milkvetch (*Astragalus jaegerianus*) at Fort Irwin, CA. Submitted to: Natural and Cultural Resource Program Manager. DPW Environmental Division. Fort Irwin, CA.
- **Pereira, T.J.** (2015). Annual Monitoring of Desert Cymopterus (*Cymopterus deserticola*) at Fort Irwin, California, CA. Submitted to: Natural and Cultural Resource Program Manager. DPW Environmental Division. Fort Irwin, CA.
- **Pereira, T.J.** (2014). Fort Irwin Springs and Seeps Monitoring Report, 2014. Submitted to: Natural and Cultural Resource Program Manager. DPW Environmental Division. Fort Irwin, CA.

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## FUNDING

- 2022: (PI). Luke Lozier through Skyterra, Blue Diamond, NV) Uncommon Ground: Living Building Design Challenge, Restoration Ecology Consulting. \$2,500
- 2022: (PI). Clark County Desert Conservation Program, Las Vegas, NV) Las Vegas Bearpoppy Restoration Research Rainbow Gardens. \$300,000.00
- 2022: (PI). DOI, National Park Service [NPS], North Las Vegas, NV) CESU Inventory of Ozone Injury in Native Plants and Joshua Trees at Tule Springs Fossil Beds National Monument (TUSK). \$9,847
- 2022: (PI). Department of the Interior (DOI). Bureau of Land Management [BLM], CA) A Novel Technical Guide for Mojave Plant Species: Using Traditional And Contemporary Scientific Illustration Techniques. \$49,934

- 2022: (PI) DOI. United States Geological Survey. Evaluating the Effects of Solar Panels and Mowing on Threecorner Milkvetch and its Habitat. \$32,978.
- 2022: (PI) Castle Mountain - Investigating Eastern Joshua Tree (*Yucca jaegeriana*) Seed Ecology, Germination and Seedling Survivorship. \$211,065
- 2022: (PI). Nevada Department of Transportation [NDOT], Las Vegas, NV) Rare Plant Exploration as Mitigation for the I-15 Phase 3 Project. \$13,004
- 2022: (PI). Nevada Division of Forestry [NDF], United States Fish and Wildlife Service [USFWS] Section 6 Funding) Evaluating the effect of Invasive Mustard on Threecorner Milkvetch. \$36,500.
- 2021: (PI). DOI. BLM. Investigating the Distribution of Rare Bearpoppy Species, Las Vegas Bearpoppy (*Arctomecon californica*) in Arizona: Habitat Modeling and Focused Surveys using Traditional and Remote Sensing Methods. \$39,486.00
- 2021: (PI). DOI. NPS. TUSK Desert Tortoise Vulnerability Study. \$54,701.00
- 2021: (PI). Traditional Section 6 Grants Cooperative Agreement with the US Fish and Wildlife Service. USFWS/ Nevada Division of Forestry (NDF). Bearpoppy Surveys at Tule Springs Fossil Beds National Monument. \$83,036.00
- 2021: (PI). Pacific Oak/GWA - Tule Springs - Full Root Excavation of Las Vegas Bearpoppy. \$4,368
- 2021: (PI). Wadley Construction - RRNCA Potable Water Pipeline. \$20,146
- 2021: USGS. Scientific Illustration. Figures. \$600
- 2020: USGS. Scientific Illustration. Graphical Abstract. \$600
- 2020: (Co-PI). DOI. BLM: Goblin State Park Expansion Threatened & Endangered Plant Survey. \$156,092.00
- 2020: (PI). United States Army Core of Engineers (USACOE) - Natural Resources Mgmt. Support at Ft. Hunter Liggett & Parks Reserve Forces Training. \$89,906.00
- 2020: (PI) DOI NPS - Botanical Illustration for Outreach and Education. \$7,067.00
- 2019: DRI Capacity Building Funds. Botanical Inventory at Tule Springs Fossil Beds National Monument. \$23,000

## HONORS & AWARDS

- 2019: UNLV Outstanding Graduate Student
- 2018: UNLV Graduate Student Showcase Finalist
- 2018: Graduate Professional Student Association Research Sponsorship
- 2017: UNLV 3-Minute Thesis Competition, Semifinalist
- 2011: USC Discovery Scholar Distinction and USC Global Scholar Distinction
- 2011: 2<sup>nd</sup> Place in Fine Arts Category, USC Undergraduate Research Awards  
Independent Study: Los Angeles River Case Study in Fine Arts and Environmental Studies
- 2010: Student Opportunities for Academic Research Grant
- 2008: Summer Undergraduate Research Fund Grant

## SCIENTIFIC ILLUSTRATION

- *In review*. Scientific Illustration (Figure): Partitioning Effects of Temperature and Precipitation on Survival and Recruitment to Inform Climate Effects on Frog Populations, *Ecological Indicators*
  - 2021. Scientific Illustration (Figures and Issue Cover Graphic): Leveraging Rangeland Monitoring Data for Wildlife: From Concept to Practice, *Rangelands* <https://doi.org/10.1016/j.rala.2021.09.005>
  - 2021. Scientific Illustration (Graphical Abstract & Issue Cover Photography): Amphibian resistance to chytridiomycosis increases following low-virulence chytrid fungal infection or drug-mediated clearance, *Journal of Applied Ecology*, 58(10)
  - 2021. Scientific Illustration (Graphical Abstract): From satellites to frogs: Quantifying ecohydrological change, drought mitigation, and population demography in desert meadows, *Science of The Total Environment*. doi: 10.1016/j.scitotenv.2020.143632
  - 2020. Scientific Illustration (Graphical Abstract): Toxic time bombs: Frequent detection of anticoagulant rodenticides in urban reptiles at multiple trophic levels, *Science of the Total Environment*
  - 2017. Scientific Illustration (Figures): Systematic Approach to Isolating Batrachochytrium dendrobatidis, *Diseases of Aquatic Organisms*, 127 (3), 243-247,
  - 2014. Scientific Illustration (Museum Exhibit): Morning After the Storm: A Cretaceous Flood Plain Comes Alive (Oil on canvas), Nevada State Museum, Las Vegas Permanent Exhibit
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## PROFESSIONAL AFFILIATIONS

2011 – Present	<i>Member</i>	Guild of Natural Science Illustrators
2017 – Present	<i>Member</i>	Society for Ecological Restoration (SER)
2018 – Present	<i>Lecturer and Volunteer</i>	The University of Nevada Cooperative Extension
2018 – Present	<i>Lecturer and Board Member</i>	Nevada Native Plant Society
2021 – Present	<i>Board Member, NV Representative, Conference organizer</i>	Society for Ecological Restoration Southwest Chapter
2021 – Present	<i>Board Member, Conference organizer</i>	Southern California Academy of Sciences

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## MEDIA, OUTREACH AND EDUCATION

- Science at the Springs (2023 upcoming)
- The Earth Project COP26 Countdown Interview (2022)
- NV Naturalist Program Virtual Presentation Botany at Tule Springs Fossil Beds National Monument (2022)
- Tule Springs Fossil Beds National Monument Pleistocene Palooza (2022, 2021)
- Interview for Reno Gazette Journal article, *Fall colors are starting early in Reno area. Scientists blame the ongoing drought.* (2021)
- Nevada Humanities Heart to Heart Series article. The Zero Year. 2021. <https://www.nevadahumanities.org/heart-to-heart/2021/4/26/the-zero-year>
- Science Distilled Presentation Virtual (2021)

- Las Vegas Natural History Museum Interview with a Scientist Series (2020)
  - Ethics of Place UNLV architecture discussion and critiques (2020)
  - Seeds and Soil STEM Kit for Teachers Pilot Video (2020)
  - UNR Libraries - 1000 Miles Project (2020)
  - NV Naturalist Program Virtual Presentation, Amphibians and Reptiles (2020)
  - Science Phenomena from the Field (2020)
  - NV STEAM Conference (2020)
  - Science Distilled (2021, 2023 upcoming)
  - NV Naturalist Program Virtual Presentation, Amphibians and Reptiles (2021, 2020, 2019, 2018)
  - NV Naturalist Program Virtual Presentation, Field Techniques (2022, 2021, 2020, 2019, 2018)
  - Nevada Native Plant Society Meeting Presentation (2018)
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## **MENTORING AND SUPERVISORY EXPERIENCE**

### **UNLV**

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| <ul style="list-style-type: none"> <li>▪ Emily Gelbart. UNLV. (2017 – 2019)</li> <li>▪ Naidelin Maldonado. UNLV. (2017 – 2019)</li> <li>▪ Alejandra Larranaga. UNLV. (2017 – 2019)</li> </ul> | <ul style="list-style-type: none"> <li>▪ Charlie Schneider (2021)</li> <li>▪ Greg Gust (2021)</li> <li>▪ Ben Banick (2021)</li> <li>▪ Emily Alder (2021)</li> <li>▪ Jacob Wozny (2021)</li> <li>▪ Joellyn Moine (2021, 2022 – present)</li> <li>▪ David Basulto (2022)</li> <li>▪ Amelia Porter (2022)</li> <li>▪ Akosua Fosu (2022)</li> <li>▪ Roxanna Neilson (2022 – present)</li> <li>▪ Tsvetelina Stefanova (2022 – present)</li> </ul> |
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### **DRI:**

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| <ul style="list-style-type: none"> <li>▪ Carrie Clark. DRI. (2019 – present)</li> <li>▪ Dominic Gentilcore (2020 – 2021)</li> <li>▪ Nick Filannino (2021)</li> <li>▪ Michele Beadle (2021)</li> <li>▪ Cassie Collins (2021)</li> </ul> | <ul style="list-style-type: none"> <li>▪ Charlie Schneider (2021)</li> <li>▪ Greg Gust (2021)</li> <li>▪ Ben Banick (2021)</li> <li>▪ Emily Alder (2021)</li> <li>▪ Jacob Wozny (2021)</li> <li>▪ Joellyn Moine (2021, 2022 – present)</li> <li>▪ David Basulto (2022)</li> <li>▪ Amelia Porter (2022)</li> <li>▪ Akosua Fosu (2022)</li> <li>▪ Roxanna Neilson (2022 – present)</li> <li>▪ Tsvetelina Stefanova (2022 – present)</li> </ul> |
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## **CERTIFICATIONS AND/OR PERMITS**

- Authorized DT Biologist approval as needed (2012 – present)
- Nevada Department of Wildlife Scientific Collection Permit for NTTR (2020)
- Nevada Division of Forestry Scientific Research and Collection Permit for Tule Springs Fossil Beds National Monument (2020)
- U. S. Fish and Wildlife Service Migratory Bird Salvage Permit for NTTR (2020)