

Rachel E. Gutner

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Education

2022-Present **M.S., Biology**, California State University, Northridge (CSUN)

2017-2021 **B.S., Biology; Minor, Environmental Studies**, University of Central Florida (UCF)

Research interests

Phylogeography, molecular evolution, spatial genetics, amphibians and reptiles, historical modeling

Grants and other awards

Mack I. Johnson Research Award for Outstanding Graduate Student in the College of Science and Mathematics (\$5000)	2025
Nathan O. Freedman Memorial Award for Outstanding Graduate Student (\$500)	2025
Associated Students General Scholarship (\$2000)	2024
Newhall Land and Farming Southern California Scholarship (\$3000)	2024
Julie Gorchynski, MD Research Graduate Student Scholarship (\$1700)	2024
MSP James R. Simpson Merit Scholarship, CSUN Associated Students (\$2000)	2023
Youth Scholarship for Community Service, Premier America Foundation (\$1000)	2023
Graduate Fellowship for Outstanding Research Promise, CSUN College of Science and Mathematics (\$5000)	2023
Bob and Doris Tracy Memorial Graduate Fellowship Award, CSUN (\$1500)	2023
Hugo and Irma Oppenheimer Biology Department Award, CSUN Department of Biology, College of Science and Math (\$200)	2023
Helen and Frederick Gaige Fund Award, American Society of Ichthyologists and Herpetologists, Conservation genomics of the island endemic lizard, <i>Sceloporus becki</i> , on the Northern Channel Islands (\$1000)	2023
Research Support Program, Office of Graduate Studies (CSUN), Genetic variance in coastal versus inland populations of southern leopard frog, <i>Rana sphenoccephala</i> (\$294)	2023
Robert H. Schiffman Memorial Award for Outstanding Research Promise, Office of Graduate Studies (CSUN), Honorable Mention (\$500)	2023
Office of Graduate Studies (CSUN), Smithsonian-Mason School of Conservation, Bioinformatics Analysis Workshop (\$300)	2023

Southern California Research Learning Center Grant, National Park Service, Conservation genomics of the island endemic lizard, <i>Sceloporus becki</i> , on the Northern Channel Islands (\$7650)	2022
California Nonresident Tuition Exemption Grant, CSUN (\$7548)	2022
Thesis/Project/Dissertation Support Grant, Office of Graduate Studies CSUN, Using population genomics to understand evolutionary dynamics on islands (\$1100)	2022
Southeast Regional Award, National Association of County Agricultural Agents, Plant This, Not That: Avoiding Invasive Plants in Florida	2022
Outstanding Educational Materials, Book or Comprehensive Curriculum, Plant This, Not That: Avoiding Invasive Plants in Florida	2022
Arnold Haverlee Exploration Award, Travel, Genetic variance in coastal versus inland populations of southern leopard frog, <i>Rana sphenocephala</i> , (\$500)	2021
Winter Park Garden Club, Endowed Scholarship Fund (\$1500)	2021
UCF Office of Undergraduate Research Grant, Genetic variance in coastal versus inland populations of southern leopard frog, <i>Rana sphenocephala</i> , (\$1050)	2021
UCF Office of Undergraduate Research Grant, Genetic variance in coastal versus inland populations of southern leopard frog, <i>Rana sphenocephala</i> , (\$1057)	2020
Bright Futures Scholarship, Florida Academic Scholars (\$19,756)	2017-2020

Teaching experience

Graduate Assistant, Molecular Markers/Evolution, Undergraduate Biology Majors, CSUN	2025-Present
Biology Tutor, General Biology, Evolution, Genetics, Biology Labs, CSUN	2022-Present
Teaching Associate, Biological Principles I Lab, Undergraduate Biology Majors, CSUN	2022-2024
Teaching Associate, Introduction to Biology, Undergraduate Biology Majors, CSUN	2023
Graduate Assistant, Conservation Biology, Undergraduate Biology Majors, CSUN	2022-2023
Undergraduate Teaching Assistant, Honeybee Biology and Beekeeping Lecture and Field Study, Undergraduate Biology Majors, UCF	2018-2019

Professional presentations and proceedings

- Gutner, R.E.***, Pauly, G.B., Chan, L.M., Murphy, M.A., Funk, W.C., Robertson, J.M. Genetic consequences of landscape heterogeneity and isolation on a near-shore island endemic lizard. Evolution Meeting. Poster. Montreal, Canada. 2024
- Gutner, R.E.***, Robertson, J.M., Chan, L.M., Funk, W.C., Pauly, G.B. Morphological and molecular evidence for recognizing the Island Fence Lizard as a distinct species endemic to the northern California Channel Islands. Society for Study of Amphibians and Reptiles. Oral. Ann Arbor, Michigan, USA. 2024

Gutner, R.E.*, Robertson, J.M., Chan, L.M., Funk, W.C., Pauly, G.B. Morphological and molecular evidence for recognizing the Island Fence Lizard as a distinct species endemic to the northern California Channel Islands, Southern California Academy of Sciences. Oral. Los Angeles, California, USA. 2024

Gutner, R.E.*, Pauly, G.B., Chan, L.M., Murphy, M.A., Funk, W.C., Robertson, J.M. Genetic consequences of landscape heterogeneity and isolation on a near-shore island endemic lizard, CSUNposium. Poster. Northridge, California, USA. 2024

Pauly, G.B.*, **Gutner, R.E.**, Chan, L.M., Funk, W.C., Robertson, J.M. Morphological and Molecular Evidence for Recognizing the Island Fence Lizard as a Distinct Species Endemic to the Northern Channel Islands of California, California Channel Islands Symposium. Oral. Ventura, California, USA. 2023

Gutner, R.E.*, Savage A., Lafond, J.L., Davison, J. Genetic variance in coastal versus inland populations of southern leopard frog, *Rana sphenocephala*, Southeast Partners in Amphibian and Reptile Conservation. Oral. Virtual. 2022

Gutner, R.E.*, Savage A., Lafond, J.L., Davison, J. Genetic variance in coastal versus inland populations of southern leopard frog, *Rana sphenocephala*, UCF Symposium for Undergraduate Research. Poster. Virtual. 2021

McIntyre, T*, **Gutner R.E.**, Silvasy T., Barbour S. Concepts for Sustainable Landscape Mosaics, Florida State Horticultural Society. Oral. Daytona Beach, Florida, USA. 2021

Gutner, R.E.*. Genetic variance in coastal versus inland populations of southern leopard frog, *Rana sphenocephala*, UCF Symposium for Undergraduate Research. Oral. Orlando, Florida, USA. 2020

Non-peer reviewed literature

McIntyre, Tina, **Gutner, R.**, Silvasy, T., Rivas, J., Momol, E. A Florida-Friendly Landscaping Approach to Pest Management in Your Edible Landscape, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2023

McIntyre, Tina, **Gutner, R.**, Silvasy, T., Rivas, J., Momol, E. Rethinking wildlife in your Florida-Friendly Edible Landscape, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2022

McIntyre, Tina, **Gutner, R.**, Silvasy, T., Rivas, J., Momol, E. Mulching herbs, vegetables and fruit trees in the Florida-Friendly Edible Landscape, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2022

McIntyre, Tina, **Gutner, R.**, Silvasy, T., Momol, E., Soil Health and Fertility of Florida-Friendly Edible Landscapes, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2022

Gutner, Rachel, McIntyre T., Silvasy T., Pruning, harvesting, and maintenance of Florida-Friendly Edible Landscapes, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2022

McIntyre, T., **Gutner R.**, Wilson, S.B., Concepts for sustainable landscape mosaics, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2021

McIntyre T., **Gutner, R.**, Wilson S.B., Pinkerton M., Plant This, Not That: Avoiding Invasive Plants in Florida, University of Florida, Institute for Food and Agricultural Sciences, Electronic Data Information Source. 2021

Membership in professional societies

Society for Study of Evolution	2023-Present
Society for Conservation Biology	2023-Present
Society for Integrative and Comparative Biology, Ecology and Evolution Division	2022-Present
Society for the Study of Amphibians and Reptiles	2022-Present
Herpetology League	2022-Present

Skills and certifications

Specimen preparation and handling	2023-Present
Phylogenetic Comparative Methods (workshop), Society of the Study of Amphibians and Reptiles	2024
Bioinformatics Analysis, Smithsonian-Mason School of Conservation	2023
Wilderness First Responder Certification, SOLO Outdoor School	2021
CPR Certification, American Heart Association	2021
DNA Extraction, RADseq library preparation, Exosap, Geneious, PopART, capture-mark-recapture methods, salinity refractometer, stomach content analysis, research climber	2018-Present

Professional service

Graduate Committee Member, Pre-College Scholars Program (SSAR)	2024-Present
Secretary, Behavior, Ecology, and Evolution Research Group (BEER)	2022-2024
Girls in Science and Technology (GiST) Coordinator, Women in Stem (WiS)	2022-2023

Research and relevant work experience

Assistant Collections Manager, Los Angeles County Museum of Natural History	2024-Present
Master's Student, Robertson Lab, CSUN	2022-Present
Teaching Associate, Graduate Assistant, Tutor, CSUN	2022-Present
Undergraduate Researcher, Savage Lab, UCF	2018-2022
Research Assistant, D4 Ecology Lab, UCF Department of Biology	2021
Administrative Assistant, Seminole County, University of Florida, Institute of Food and Agricultural Science Extension	2020-2022

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Pollinator Gardens Co-coordinator, UCF Department of Landscape and Natural Resources	2019-2021
Outreach Assistant, Office of Sustainability, UCF Facilities and Operations	2019