

Coral Gardner

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EDUCATION

2016	B.S., Biology Major, Geography Minor, <i>Southern Utah University</i>	Cedar City, UT
2013	A.S., <i>Utah Valley University</i>	Orem, UT
2012	High School Diploma, <i>Mountain View High School</i>	Orem, UT

HONORS & SCHOLARSHIPS

Outstanding Research Award		2016
○ <i>College of Science & Engineering Academic Award, Department of Biology</i>		
Scholarship in Science, Technology, Engineering and Mathematics Program (S-STEM)		2013-2016
○ <i>Academic scholarship, Southern Utah University</i>		
Outstanding Service Award		2015
○ <i>College of Science & Engineering Academic Award, Department of Biology</i>		
Undergraduate Research and Scholarship Program (UGRASP)		2013-2015
○ <i>Support for <i>Colossendeis colossea</i> research and travel</i>		
Writing Fellows Award		2014
○ <i>Selected by SUU faculty to help students with scientific writing through the writing center</i>		
UVU Biotechnology Halo Scholarship		2012
○ <i>Academic scholarship, Utah Valley University</i>		

EXPERIENCE IN BIOLOGY

2017 – Present	GIS Technician (ArcGIS 10.5, ArcGIS Pro, ArcMap Online, Collector), SUU Biology Department.
2017 – Present	Herpetological Impact from Greater sage-grouse Vegetation Management and Herpetological Inventory of the Grand Staircase-Escalante National Monument. Southern Utah University, Grand Staircase-Escalante Monument, and Kanab BLM Field Office.
Feb. – Aug. 2019	Biological Field Technician 1 (Herpetology focus). The Nature Conservancy (TNC), Camp Shelby Training Base Center, Mississippi.
2014 – 2019	Revision of <i>Colossendeis colossea</i> , specimens on loan from United States National Museum (USNM) and Museum of Comparative Zoology (MCZ). Biology Department, Southern Utah University.
2015 Summer	Wildlife Technician Intern, Dixie National Forest Service
2014 Jan. – Dec. 2016	Herpetology Animal Care Internship, SUU Biology Department.
2016 Summer	Career Internship Corps Recreation Crew Member, Intergovernmental Internship Cooperative SUU, Cedar City and Kanab BLM Office.

RESEARCH EXPERIENCE IN BIOLOGY

- 2014 – 2019 Pycnogonida Taxonomy, Biology Department, Southern Utah University.
- May 2017 Interspecific amplexus of *Smilisca Baudini* (Mexican Treefrog) and *Incilius Luetkenii* (Yellow Toad), Nicaragua. Southern Utah University.
- March 2015 Biology and Geology Coral Reef Research Experience. San Salvador, the Bahamas.
- May 2014 – Dec. 2016 Changes in Water Chemistry in Cedar City Irrigation Systems. Southern Utah University. IUTAH.
- 2014 Jan. – Dec. Scientific Writing Fellow, *Southern Utah University*
- 2014 Feb Southern California Writers' Conference, *Irvine, CA.*
- 2013 Oct. – Dec. Production of nematocysts in anemones (*Aiptasia pallida*), Biology Department, Southern Utah University.
- 2012 Jan.-May Alfalfa *sinorhizobium* bacteria Nitrogen Fixation. Biotechnology Internship, Mountain View High School.
- 2011 Fall Biological Nitrogen Fixation Project. Biotechnology Department, Brigham Young University.

VOLUNTEER RESEARCH EXPERIENCE

- 2017 March – Sept. Hummingbird surveys, *Grand Staircase-Escalante National Monument*
- 2017 April – Sept. Bat Surveys, *San Rafael Swell & Grand Staircase-Escalante National Monument*
- 2016 April Removal of invasive fish via electrofishing, *Virgin River, UT*
- 2015 August Boreal Toad (*Bufo boreas boreas*) Surveys, *Dixie National Forest Service*

PUBLICATIONS**PUBLISHED**

- William H. Heyborne, and Coral E. Gardner, and Brittany A. Kemme. 2018. *Smilisca baudini* (Mexican Treefrog) and *Incilius luetkenii* (Yellow Toad). Interspecific amplexus. *Herpetological Review* 49(1):101.
- William H. Heyborne, and Coral E. Gardner. 2017. Amphibians and Reptiles of the Grand Staircase-Escalante National Monument (Vegetation management, Diversity, Abundance, and Geography) U.S. *Utah Bureau of Land Management.*
- William H. Heyborne, Coral E. Gardner, and Ian W. Shipley. 2018. *Anaxyrus punctatus* (Red-spotted Toad). Cannibalism. *Herpetological Review* 49(4):728.
- William H. Heyborne, and Coral E. Gardner. 2018. Amphibians and Reptiles of the Grand Staircase-Escalante National Monument (Vegetation management, Diversity, Abundance, and Geography) U.S. *Utah Bureau of Land Management.*
- William H. Heyborne, Coral E. Gardner, and Nathan St. Andre. 2019. Western whiptail (*Aspidoscelis tigris*) bifurcated tail. *Herpetological Review* 50(3):569-570.

IN PREPARATION

- Coral E. Gardner, William H. Heyborne. (in prep). A case report of local envenoming by the western hognose snake (*Heterodon nasicus*). To be submitted to *Toxicon*.
- Coral E. Gardner, Fredric R. Govedich, Bonnie A. Bain, (in prep). Two new Antarctic *Colossendeis* species (Pycnogonida, Colossendeidae). To be submitted to *ZooKeys*.
- Coral E. Gardner, Kyson McBride, and William H. Heyborne. (in prep). *Pituophis catenifer deserticola* (Gopher Snake) survival of a healed wound. To be submitted to *Herpetological Review*.
- Coral E. Gardner, Fredric R. Govedich, Bonnie A. Bain, (in prep). Revision of *Colossendeis colossea* Wilsons, 1881 (Pycnogonida: Family *Colossendeidae*), to be submitted to *Museum of Comparative Zoology (MCZ)*.

CONFERENCE PRESENTATIONS**ORAL PRESENTATIONS**

- Gardner, C.E. 2016. Revision of *Colossendeis colossea* Wilson, 1881 (Pycnogonida: Family *Colossendeidae*). Utah Conference on Undergraduate Research, *University of Utah*.
- Gardner, C.E. 2016. Revision of *Colossendeis colossea* Wilson, 1881 (Pycnogonida: Family *Colossendeidae*). *The Society for Integrative & Comparative Biology*.
- Gardner, C.E. and D. Long. 2015. Changes in Water Chemistry in Cedar City Irrigation Systems. IUTAH. The National Conference on Undergraduate Research (NCUR), *Eastern Washington University*.
- Gardner, C.E. and A. Carlson. 2015. San Salvador Inland Lakes Invertebrate Survey. Festival of Excellence, *Southern Utah University Symposium*.
- Gardner, C.E. 2011. Biological Nitrogen Fixation in pea plants. *Brigham Young University*.

POSTER PRESENTATIONS

- Gardner, C.E., and W.H. Heyborne. 2019. Herpetological Inventory of the Grand Staircase-Escalante National Monument, Utah, USA. *Joint Meeting of Ichthyology and Herpetology (JMIH)*.
- Gardner, C.E. 2018. Mobile Data Collection, Integrating GIS Technology in the Field. COSE Symposium, *Southern Utah University*.
- Gardner, C.E. 2015. Revision of *Colossendeis colossea* Wilson, 1881. *Southern Utah University Symposium*.
- Gardner, C.E. and D. Long. 2015. Changes in Water Chemistry in Cedar City Irrigation Systems. IUTAH. *Society for Freshwater Science (SFS)*.
- Gardner, C.E. 2015. Revision of *Colossendeis colossea* Wilson, 1881. The National Conference on Undergraduate Research (NCUR), *Eastern Washington University*.
- Gardner, C.E. 2015. Revision of *Colossendeis colossea* Wilson, 1881. Festival of Excellence, *Southern Utah University*.
- Gardner, C.E. and D. Long. 2015. Changes in Water Chemistry in Cedar City Irrigation Systems. IUTAH. Festival of Excellence, *Southern Utah University*.
- Gardner, C.E. 2015. Revision of *Colossendeis colossea* Wilson, 1881. Utah Conference on Undergraduate Research (UCUR), *Dixie State University*.

Gardner, C.E. 2014. Revision of *Colossendeis colossea* Wilson, 1881. *Southern Utah University Symposium*.

Gardner, C.E. and D. Long. 2014. Changes in Water Chemistry in Cedar City Irrigation Systems. IUTAH. *Southern Utah University Symposium*.

Gardner, C.E. and D. Long. 2014. Changes in Water Chemistry in Cedar City Irrigation Systems. *IUTAH Utah State University*.

PROFESSIONAL SOCIETIES

Nov. 2017 – Present Society for the Study of Amphibians and Reptiles (SSAR)

Nov. 2017 – Present Herpetologists' League (HL)

Nov. 2015 – 2016 Society for Integrative and Comparative Biology (ICB)

May 2015 – 2016 Society for Freshwater Science (SFS)

OUTREACH IN BIOLOGY

2013 – 2016 S-STEM Peer Mentor, *SUU STEM Scholarship*

2016 Spring & Fall Zoology Club Organizer/Presenter, Cedar Middle School, *SUU*

2013 – 2016 Animal Ambassador Organization, *SUU*

2013 – 2016 Biology Club, *SUU*

2016 Spring Elementary Science Fair Judge, *SUU*

2015, 2016 Junior Regional Science Fair Judge, *SUU*

2014 Summer Cedar Breaks, Bioblast; *Scout bioblast*

LEADERSHIP

2017 – 2018 Crew Leader, Herpetology Field Technician, *SUU*

2014 – 2015 Animal Ambassador Organization President, *SUU*

2013 Fall Core Student Team, *SUU Biology Faculty Search*

CERTIFICATIONS & SKILLS

2019 Firefighter Type 2 Certification

- L-180, S-110, S-130, S-190, IS-700.b, IS-100.c
- Pack Test (May 2019)

2018 BLM UTV Certification

2017 BLM Defensive Driving Certification

2015 USFS ATV Certification

2015 UFSF Defensive Driving Certification

2012, 2015 CPR and First Aid training