CURRICULUM VITAE

TALIA G. ANDERSON

ADDRESS

University of Arizona
School of Geography and Development
ENR2 Building
1064 E Lowell Street
Tucson, AZ 85721-0137
email: taliaanderson@email.arizona.edu

EDUCATION

UNIVERSITY OF ARIZONA — Tucson, AZ
2024 *(anticipated)* Ph.D., Geography
Primary Advisor: Dr. Kevin Anchukaitis

UNIVERSITY OF ARIZONA — Tucson, AZ
2020 M.A., Geography
Thesis: *Spatiotemporal peatland productivity and climate relationships across the South America Altiplano*

UNIVERSITY OF MINNESOTA — Minneapolis, MN
2016 B.S., Geography (Honors, *summa cum laude*)
B.A., Spanish Studies (Honors)
Foreign study at VENUSA Institute of International Studies and Modern Languages (Mérida, Venezuela)

RESEARCH EXPERIENCE

GRADUATE RESEARCH ASSISTANT — Tucson, AZ
2019 Laboratory of Tree-Ring Research & School of Geography and Development
Advisor: Dr. Connie Woodhouse
Research areas include water services and supply, climate variability, and stakeholder engagement in the lower Colorado River basin. I focused on lake level variability and climate trends in Flagstaff, AZ.

GRADUATE RESEARCH ASSISTANT — Tucson, AZ
2017 – 2019 Laboratory of Tree-Ring Research & School of Geography and Development
Advisor: Dr. Kevin Anchukaitis
Research areas include dendrochronology, paleoclimate, and global change in Latin America. I evaluated the spatiotemporal variability of the Central American mid-summer drought and contributed to tree-ring chronology development in Guatemala.

TRACE RESEARCH ASSISTANT — Luquillo, Puerto Rico
2016 – 2017 US Forest Service/International Institute of Tropical Forestry
Assisted in the management of various projects for the Tropical Responses to Altered Climate Experiment (TRACE), the first warming experiment in a tropical ecosystem.

FIELD TECHNICIAN — Rio Grande, Puerto Rico
2016 Luquillo Long-Term Ecological Research (LTER) Site
Collected and managed data from the Luquillo Forest Dynamics Plot in order to assess changing forest dynamics as a result of land use history and environmental factors. Developed study site maps using ArcGIS.

UMN UNDERGRADUATE RESEARCH ASSISTANT — Minneapolis, MN
2014–2016 University of Minnesota Center for Dendrochronology
Worked as an assistant to Dr. Daniel Griffin, conducted tree ring dating, measurement, and analysis. Aided in training fellow undergraduate students.

Professional Experience

University of Minnesota Spanish & Portuguese Department — Minneapolis, MN

2014–2016 Spanish & Portuguese Studies Peer Advisor

Provided academic support to undergraduate students, completed various office duties, managed database, and developed original projects to inform students about departmental opportunities.

AMIGOS de las Américas — Pérez Zeledón, Costa Rica

2015 Project Supervisor

Created and facilitated activities during host community visits and fieldwork sessions during national park trips for youth from the United States and Costa Rica. Effectively communicated in Spanish to ensure successful summer program.

Publications

Peer-Reviewed Papers

Anderson, T. G., D. A. Christie, R. O. Chávez, M. Olea, K. J. Anchukaitis, Spatiotemporal peatland productivity and climate relationships across the South American Altiplano, *Journal of Geophysical Research – Biogeosciences*.

Chávez, R. O., D. A. Christie, M. Olea, **T. G. Anderson**, A Multiscale Productivity Assessment of High Andean Peatlands across the Chilean Altiplano Using 31 Years of Landsat Imagery, *Remote Sensing*, 2019.

Anderson, T. G., K. J. Anchukaitis, D. Pons, M. J. Taylor, Multiscale trends and precipitation extremes in the Central American Midsummer Drought, *Environmental Research Letters*, 2019.

Anderson, T. G., D. Griffin, K. J. Anchukaitis, D. Pons, M. J. Taylor, Climate sensitivity and potential vulnerability of *Abies guatemalensis* forests in Totonicapán, Guatemala, *Journal of Latin American Geography*, 2018.

Technical Reports

Anderson, T. G., C. Woodhouse, D. Ferguson, Upper Lake Mary: Lake Level Response to Climate Variability, *Internal Report, Flagstaff Water Services*, 2020.

Teaching

University of Arizona — Tucson, AZ

School of Geography and Development

GEOG 230 *Our Changing Climate* Teaching Assistant (Spring 2021)

GEOG 363 *Climate Change: Human Causes, Social Consequences, and Sustainable Responses* Teaching Assistant (Fall 2020)

GEOG 170 *Introduction to Physical Geography* Teaching Assistant (Spring 2019)

Honors

University of Arizona College of Science, Laboratory of Tree Ring Research Scholarship Award, 2021

University of Arizona College of Science Galileo Circle Scholarship, 2020

University of Arizona Women in Science and Engineering Excellence Banquet Poster Award, 2020

Alsie French & Edmund Schulman Memorial Scholarship, Spring 2018

10th World Dendrochronology Conference Student Poster Award, 2018

ACTFL Certificate of Advanced Level Proficiency in Spanish, Spring 2016

Talle Family Scholar, Fall 2015–Spring 2016

Outstanding Senior Paper–Spanish Studies, Academic Year 2016

GRANTS & FELLOWSHIPS

University of Arizona Carson Scholar Fellowship, 2021

"Rainfall variability, extreme events, and vulnerability in heterogeneous social and environmental systems", PI: Kevin Anchukaitis, coPIs: Matthew Taylor, Diego Pons, Tom Evans, Diana Liverman, NSF Human-Environment and Geographical Sciences (HEGS), BCS2049657. *As a graduate student, I contributed significantly to the design of the project and writing of the grant. I will be funded by this grant from 06/2021–05/2024.*

PATHWAYS (Partnerships Along The Headwaters of the Americas for Young Scientists) Program Research Grant, Fall 2020
Project: Synchronous streamflow extremes in headwater dependent systems across the Americas

University of Arizona Professional Opportunities Development Funding Grant, Fall 2020

American Association of Geographers Climate Specialty Group Student Grant, Fall 2020

University of Arizona Graduate Student and Professional Council Travel Grant, Spring 2020, Spring 2018, and Fall 2017

Conference of Latin American Geographers Student Travel Award, Fall 2019

Fulbright Study and Research Grant, Spring 2018
Mentor: Dr. Duncan Christie (Universidad Austral de Chile)
Project: Spatiotemporal patterns of Andean peatland dynamics across the South American Altiplano

Undergraduate Research Opportunities Program (UROP) Grant, Fall 2015

PRESENTATIONS & POSTERS

Anderson, T., C. A. Woodhouse, D. B. Ferguson, Upper Lake Mary: Lake Level Response to Climate Variability, *Flagstaff Water Commission*, Tucson, Arizona, August 2020.

Anderson, T., D. A. Christie, R. O. Chávez, M. Olea, K. J. Anchukaitis, Spatiotemporal peatland productivity and climate relationships across the South America Altiplano, *Master's Thesis Defense*, Tucson, Arizona, May 2020.

Anderson, T., C. A. Woodhouse, D. B. Ferguson, Upper Lake Mary: Lake Level Response to Climate Variability, *Flagstaff Water Services*, Tucson, Arizona, March 2020.

Anderson, T., K. J. Anchukaitis, D. Pons, M. J. Taylor, Multiscale trends and regional precipitation extremes in the Central American Midsummer Drought, Poster presented at *Women in Science and Engineering Excellence Banquet*, Tucson, Arizona, January 2020.

Anderson, T., K. J. Anchukaitis, D. Pons, M. J. Taylor, Multiscale trends and regional precipitation extremes in the Central American Midsummer Drought, *Conference of Latin American Geographers*, Antigua, Guatemala, January 2020.

Anderson, T., K. J. Anchukaitis, D. Pons, M. J. Taylor, Multiscale trends and precipitation extremes in the Central American Midsummer Drought, Poster presented at *Workshop on Risk Analysis for Extremes in the Earth System*, Berkeley, California, July 2019.

Anderson, T., Spatiotemporal patterns of Andean peatland dynamics across the South American Altiplano, *Fulbright Chile Study and Research Grant Final Conference*, Santiago, Chile, November 2018.

Anderson, T., D. Griffin, K. J. Anchukaitis, D. Pons, M. J. Taylor, Climate sensitivity and potential vulnerability of pinabete (*Abies guatemalensis*) forests in Totonicapán, Guatemala, Poster presented at *10th World Dendrochronology Conference*, Thimphu, Bhutan, June 2018.

Anderson, T., Tree Rings, Climatic Change, and Water Resource Availability in the Altiplano Plateau, *Fulbright Chile Study and Research Grant Orientation*, Santiago, Chile, March 2018.

Anderson, T. Understanding Past, Present, and Future Environments through Tree Rings, *University of Arizona Financial Administrators Outreach Event*, Tucson, Arizona, February 2018.

Anderson, T., Pinabete y los bosques comunales de Totonicapán: una mirada al pasado para entender el futuro, *Universidad del Valle Progress and Potential in Dendrochronology Conference*, Guatemala City, November 2017.

Anderson, T., Pinabete y los bosques comunales de Totonicapán: una mirada al pasado para entender el futuro, *Totonicapán Community Stakeholder Meeting*, Totonicapán, Guatemala, November 2017.

Anderson, T., Desarrollo de una cronología tropical para *Abies guatemalensis* de Totonicapán, Guatemala, *Curso-Taller: Dendrocronología y sus aplicaciones hidroclimáticas y ecológicas*, Huancayo, Perú, October 2016.

Anderson, T., D. Griffin, K. J. Anchukaitis, D. Pons, M. J. Taylor. A 168-year tropical tree-ring chronology for *Abies guatemalensis* from Totonicapán, Guatemala, Poster presented at *University of Minnesota Undergraduate Research Symposium*, Minneapolis, MN, May 2016.

SERVICE

Student Representative for the American Association of Geographers Paleoenvironmental Change Specialty Group, 2021–

Panel organizer for Women in Science and Engineering (WISE) STEM Panel Series, 2019 –

Co-president of SAGA (Southern Arizona Geographer's Association), 2020–2021

Panel Moderator of the Imagine Your STEM Future session for the University of Arizona Launching Your Career Symposium, 2021

Co-organizer for the School of Earth and Environmental Sciences Earth Week, 2020

Professional reviewer of journal manuscripts for *Dendrochronologia*, 2019

Committee Member of SAGA (Southern Arizona Geographer's Association), 2017–2019

Rapporteur for the Science, Health and Engineering Policy and Diplomacy Conference, Sustainable Development for the Americas, November 2019

Rapporteur for the Climate and Migration in Central America and Mexico: Drought, Vulnerability, Livelihoods and Attribution Workshop, September 2019

Student Representative for Spanish & Portuguese Studies Committee, 2015–2016

Honors Ambassador/Admissions Ambassador for the University of Minnesota, 2013–2015

Children's Program Leader for CLUES (Comunidades Latinas Unidas En Servicio), 2014

TRAINING

STEPS Centre Summer School on Pathways to Sustainability, May 2021.

Anti-racist Teaching Workshop, March 2021.

Alan Alda Science Communication Workshop, January 2020.

Workshop on Risk Analysis for Extremes in the Earth System, July 2019.

Curso Programación Avanzada en R para Análisis Masivo de Imágenes Satelitales (Advanced Programming Course in R for Satellite Imagery), July 2018.

10th World Dendrochronology Fieldweek, June 2018.

Curso-Taller: Dendrocronología y sus aplicaciones hidroclimáticas y ecológicas (Course-Workshop: hydroclimate and ecological applications in dendrochonology), Fall 2016

Central American Dendroecological Fieldweek (CADEF), Spring 2015

PRESS/POPULAR SCIENCE

Research featured in 'Researchers Discover Nuanced Connection Between Climate Change And Immigration', KJZZ Public Radio, November 2019.

Research featured in 'When Reporting Climate-Driven Human Migration, Place Matters', UA News, November 2019.

LANGUAGES

English – first language

Spanish – speaking (advanced), listening (advanced), writing (advanced), reading (advanced)