

University of Arizona
Bryant Bannister Tree-Ring Building
1215 E. Lowell St
Tucson, AZ 85721

EDUCATION

University of Arizona (Tucson, AZ)

August 2014-Present Pursuing a Doctor of Philosophy in Hydrology
Graduation Date: May 2020 *Advisor:* Dr. Valerie Trouet
Current GPA: 3.9 in 4.0 scale *Dissertation:* N/A

August 2011-December 2014 Masters of Science in Hydrology
GPA: 3.9 in 4.0 scale *Advisor:* Dr. Katherine Hirschboeck
Summa Cum Laude *Thesis:* Relevance of Heterogeneity for Flood
Frequency Analysis in Arizona

University of Texas at El Paso (El Paso, TX)

January 2009- June 2011 Bachelor of Science in Environmental Geosciences
GPA: 4.0 in 4.0 scale *Senior Thesis Advisor:* Vanessa Lougheed
Summa Cum Laude *Senior Thesis:* The Role of Underflows and Climate on
Sediment Distribution in Glacial-Fed Lake Linné, Svalbard,
Norway

AWARDS AND HONORS

2015 College of Science Teaching Award
2014-2015 Graduate Access Fellowship, Graduate College, University of Arizona
2014 Emerging Researchers National Conference, 1st Place Oral Presentation
2013 NSF Graduate Research Fellowship Program, Honorable Mention
2013 College of Science Galileo Circle Scholar, University of Arizona
2013 El Dia del Agua, 1st Place Hargis Award-Best Student Poster Presentation
2013 Emerging Researchers National Conference, 1st Place Poster Presentation
2012-2014 NSF LSAMP Bridge to the Doctorate Fellowship, Graduate College,
University of Arizona
2011-2012 Graduate Access Fellowship, Graduate College, University of Arizona
2010-2011 NSF Pathways Research Experience Program Recipient, Geologic Sciences,
University of Texas at El Paso
2010-2011 Federal National Science and Mathematics Access to Retain Talent
(SMART) Grant Recipient , University of Texas at El Paso
2009-2010 Academic Excellence Grant Recipient, University of Texas at El Paso

EMPLOYMENT

Graduate Teaching Assistant, *Introduction to Global Change with Dr. Steve Leavitt*, University of Arizona (Tucson, AZ)

August 2017- Present; January 2015-May 2015

Japan Exchange and Teaching (JET) Assistant Language Teacher, *Mizusawa Super Science High School- Supervisor Sato Arata* (Mizusawa, Oshu, Iwate Prefecture, Japan)

July 2016-July 2017

Graduate Teaching Assistant, *Introduction to Global Change with Dr. Katherine Hirschboeck*, University of Arizona (Tucson, AZ)

August 2015-December 2015; August 2014-December 2014

Graduate Researcher, *Climate Assessment of the Southwest- Supervisor Dr. Michael Crimmins*, University of Arizona (Tucson, AZ)

June 2015-August 2015

Graduate Researcher, *Bridge to the Doctorate Fellowship*, University of Arizona (Tucson, AZ)

September 2012-August 2014

Graduate Research Assistant, *Integrating Climate Science for Decision-Support, Mitigating Risk, and Promoting Resilience, Climate Assessment for the Southwest*, University of Arizona (Tucson, AZ)

August 2011- August 2012

Hydrologic Technician, *Methods for Estimating Magnitude and Frequency of Floods in Arizona*, US Geological Survey (Tucson, AZ)

August 2011- August 2012

RESEARCH AND FIELDWORK EXPERIENCE and SPECIAL MINI-COURSES

Studies of Precipitation, flooding, and Rainfall Extremes Across Disciplines (SPREAD) Workshop (Fort Collins, CO)

16-21 June 2013

Principal Investigator: Russell Schumacher

Pathways Research Experience Program, University of Texas at El Paso (El Paso, TX)

August 2010-May 2011

Supervisor: Tina Carrick

-Analyzed data gathered during summer research experience at Kapp Linné using various statistical techniques with Excel, SigmaPlot, DPlot, HOBOWare and Origin

-Created posters for two conferences and wrote undergraduate thesis

-Participated in other activities such as mentoring various times GK-12 students to interest them in geological sciences as well as promoting Earth Week

Svalbard Research Experience for Undergraduates (Kapp Linné, Svalbard, NO)

July 2010- August 2010

Supervisors: Al Werner and Steve Roof

-Spent five weeks in the Arctic gathering data for Senior Thesis from 60 temperature loggers located throughout the lake at different stations and depths as well as from weather stations located throughout the Linné Valley

-Assisted other students in the program to gather data from time-lapse cameras, retrieve sediment traps, and carry water samples from glacier; all work required adaptation to extreme climate and physical conditions

Louis Stokes Alliance for Minority Participation Research for Undergraduates, University of Texas at Austin (Austin, TX)

May 2009-August 2009

Supervisor: Judson Partin

-Spent time analyzing data previously gathered by supervisor from caves in Guam using Excel

-Manually gathered, filed and stored 70 years of weather data of Guam from the National Oceanic and Atmospheric Administration using Excel

POSTER PRESENTATIONS

-Zamora-Reyes, D.; Hirschboeck, K.K. "Flood Heterogeneity as a Tool for Exploring Flood Frequency-Climate Linkage." Presented at 2014 El Dia del Agua, University of Arizona, Department of Hydrology and Water Resources Conference, Tucson, AZ, 9 April.

-Zamora-Reyes, D and Hirschboeck, K.K. "Flood Heterogeneity as a Tool for Exploring Flood Frequency-Climate Linkages from a Watershed Perspective." Abstract GP #39 presented at 2014 Emerging Researchers National Conference in STEM, Washington, DC, 22 February.

-Zamora-Reyes, D; Hirschboeck, K.K; Valdes, J.B. "Flood Heterogeneity as a Tool for Exploring Flood Frequency-Climate Linkages from a Watershed Perspective." Abstract H51Q-06 presented at 2013 American Geophysical Union Fall Meeting, San Francisco, CA, 13 Dec.

-Zamora-Reyes, D.; Hirschboeck, K.K; Parette, N.V. "The Importance of Flood Heterogeneity for Flood Frequency Analysis in Arizona." Presented at 2013 El Dia del Agua, University of Arizona, Department of Hydrology and Water Resources Conference, Tucson, AZ, 10 April.

-Zamora-Reyes, D.; Hirschboeck, K.K; Parette, N.V. "Importance of Flood Heterogeneity for Regionalization in Arizona." Abstract GP #29 presented at 2013 Emerging Researchers National Conference in STEM, Washington, DC, 1 March.

-Zamora-Reyes, D.; Hirschboeck, K.K; Parette, N.V. "An Exploration of the Importance of Flood Heterogeneity for Regionalization in Arizona using the Expected Moments Algorithm." Abstract H41F-1245 presented at 2012 American Geophysical Union Fall Meeting, San Francisco, CA, 6 Dec.

-Zamora-Reyes, D.; Lougheed, V. "The Role of Underflows and Climate on Sediment Distribution in Glacial-Fed Lake Linné, Svalbard, Norway" Presented at 2011 UTEP College Office of Undergraduate Research Initiatives, El Paso, TX, 16 April.

-Zamora-Reyes, D.; Lougheed, V. "Sediment Distribution in Glacial-Fed Lake Linné, Svalbard, Norway Using Lake Temperature, Meteorological and Interval-O-Meter Data with Time-Lapse Pictures Recorded From 2009-2010" Presented at 2011 UTEP Geology Colloquium, El Paso, TX, 9 March.

-Zamora-Reyes, D.; Lougheed, V. "Sediment Distribution in Glacial-Fed Lake Linné, Svalbard, Norway Using Lake Temperature, Meteorological and Interval-O-Meter Data with Time-Lapse Pictures Recorded From 2009-2010" Presented at 2011 Arctic Workshop, Montreal, Canada, 3 March.

-Zamora-Reyes, D.; Partin, J.; Banner, J. "Correlation Between Above-Ground and Cave Environmental Conditions in Guam" Presented at 2010 UT System LSAMP Student Research Conference, Austin, TX, 12 September.

PROFESSIONAL AFFILIATIONS

American Geophysical Union (AGU)

SKILLS

Languages

Fluent in speaking and writing Spanish and English.

Technical

Proficient in Microsoft Office, especially in Excel Spreadsheets, MATLAB, NCL, Google Earth, SigmaPlot, Origin, Adobe Illustrator, PeakFQ, and PeakFQSA.