Deanna Nash

Website: dlnash.github.io Email: dnash@ucsd.edu GitHub: github.com/dlnash

EDUCATION

University of California Santa Barbara

Santa Barbara, CA

Ph.D. in Geography, Advisor: Leila Carvalho

2017-June 2022

 Dissertation: "Dynamics of Atmospheric Rivers in High Mountain Asia: Influences on Precipitation, Lightning and Landslides"

California State University, Los Angeles

Los Angeles, CA

M.A. in Geography, GPA: 4.0

2015-2017

 Thesis: "Atmospheric River Contributions to Extratropical Poleward Moisture Transports and Atmospheric Water Cycle"

University of Colorado Colorado Springs

Colorado Springs, CO

B.A. in Geography, GPA: 3.8

2010-2014

- Emphasis in Geospatial Science with Certification in Geographic Information Systems
- Thesis: "Examining post-fire landscape change using remote sensing"
- UCCS Department of Geography Honors with highest distinction

University of Granada

Granada, Spain

Study Abroad

2011–2012

University of Costa Rica

San Jose, Costa Rica

Study Abroad

2014-2014

PUBLICATIONS

Nash, **Deanna**, Leila M. V. Carvalho, Charles Jones, and Qinghua Ding (2022). "Influence of zero degree line on Atmospheric Rivers in High Mountain Asia: WRF case studies of orographic precipitation extremes". In: *(in preparation)*.

Nash, **Deanna**, Charles Jones, and Leila M. V. Carvalho (2022). "Extremes in the atmosphere, disasters on land: Simulating and evaluating hazardous atmospheric river-related precipitation in High Mountain Asia". In: *(in preparation)*.

Murray, Alan T, Leila Carvalho, Richard L Church, Charles Jones, Dar Roberts, Jing Xu, Katelyn Zigner, and **Deanna Nash** (2021). "Coastal Vulnerability under Extreme Weather". In: *Applied Spatial Analysis and Policy* 14.3, pp. 497–523. ISSN: 1874-4621. DOI: 10.1007/s12061-020-09357-0.

Nash, **Deanna**, Leila M. V. Carvalho, Charles Jones, and Qinghua Ding (2021). "Winter and spring atmospheric rivers in High Mountain Asia: climatology, dynamics, and variability". In: *Climate Dynamics*. ISSN: 1432-0894. DOI: 10.1007/S00382-021-06008-Z.

Nash, **Deanna** and Leila Carvalho (2020). "Brief Communication: An electrifying atmospheric river—understanding the thunderstorm event in Santa Barbara County during March 2019". In: *Natural Hazards and Earth System Sciences* 20.7, pp. 1931–1940. DOI: 10.5194/nhess-20-1931-2020.

Nash, **Deanna**, Duane Waliser, Bin Guan, Hengchun Ye, and F Martin Ralph (2018). "The role of atmospheric rivers in extratropical and polar hydroclimate". In: *Journal of Geophysical Research: Atmospheres* 123.13, pp. 6804–6821. DOI: 10.1029/2017JD028130.

Nash, Deanna, Hengchun Ye, and Eric Fetzer (2017). "Spatial and Temporal Variability in Winter Precipitation across the Western United States during the Satellite Era". In: *Remote Sensing* 9.9, p. 928. DOI: 10.3390/rs9090928.

PRESENTATIONS

- **Nash**, **Deanna** (Aug. 2022). "Influence of Zero-degree Line on Atmospheric Rivers in High Mountain Asia: WRF Case Studies of Orographic Precipitation Extremes (oral)". In: *Asia Oceania Geosciences Society*. Virtual.
- **Nash**, **Deanna**, Leila M V Carvalho, and Charles Jones (Oct. 2022). "Influence of Zero Degree Line on Atmospheric Rivers in High Mountain Asia: WRF Case Studies of Orographic Precipitation (oral)". In: *International Atmospheric River Conference*. Santiago, Chile.
- Nash, Deanna, Nikos Mastrantonas, William Schedftic, Alex K. Mitchell, Janak R. Joshi, Michael J. DeFlorio, Aneesh C. Subramanian, and Judith Berner (Mar. 2022). "Subseasonal predictions during the 2017 Oroville Dam Crisis: Role of atmospheric rivers and antecedent synoptic conditions". In: International Research Institute for Climate and Society Workshop on Sub-seasonal to Seasonal Climate Forecasting for Water Management in the Western U.S. Virtual.
- **Nash**, **Deanna** and Leila V Carvalho (Dec. 2021). "Simulating and evaluating hazardous atmospheric river-related precipitation in High Mountain Asia". In: AGU Fall Meeting. New Orleans, LA.
- Nash, Deanna and Leila V Carvalho (Dec. 2020a). "Winter and Spring Atmospheric Rivers in High Mountain Asia: Climatology, Dynamics and Variability". In: AGU Fall Meeting. Virtual.
- **Nash**, **Deanna** and Leila V Carvalho (Oct. 2020b). "Winter and Spring Atmospheric Rivers in High Mountain Asia: Climatology, Dynamics and Variability". In: International Atmospheric Rivers Conference. Virtual.
- Nash, Deanna and Leila V Carvalho (Oct. 2019a). "An Electrifying Atmospheric River: Understanding the Thunderstorm Event in Santa Barbara County during March 2019". In: Earth Research Institute Climate Meeting. Santa Barbara, CA.
- Nash, Deanna and Leila V Carvalho (Dec. 2019b). "Atmospheric Rivers and Precipitation in High Mountain Asia". In: AGUFM. San Francisco, CA.
- **Nash**, **Deanna** and Leila V Carvalho (Apr. 2019c). "Impacts on High Mountain Asia Precipitation". In: American Association of Geographers Annual Meeting. Washington D.C.
- **Nash**, **Deanna** and Leila V Carvalho (May 2019d). "Synoptic-scale atmospheric circulation anomalies associated with winter atmospheric rivers in High Mountain Asia". In: Earth Research Institute Climate Meeting. Santa Barbara, CA.
- **Nash**, **Deanna** and Leila V Carvalho (Dec. 2018a). "Atmospheric Rivers Impact on High Asia Mountain Precipitation". In: AGUFM. Washington D.C.
- Nash, Deanna and Leila V Carvalho (Oct. 2018b). "What is the impact of Atmospheric Rivers on High Mountain Asia Preciptiation?" In: NOAA's 43rd climate Diagnostic and Prediction Workshop. Santa Barbara, CA.
- **Nash**, **Deanna**, Duane Edward Waliser, Bin Guan, Hengchun Ye, and F Martin Ralph (June 2018). "The Role of Atmospheric Rivers in Extratropical and Polar Hydroclimates". In: International Atmospheric River Conference. La Jolla, CA.
- **Nash**, **Deanna** (Feb. 2017). "Atmospheric River Contributions to Extratropical Poleward Moisture Transports and Atmospheric Water Cycle". In: CSULA Research Symposium. Los Angeles, CA.
- Nash, Deanna, Duane Edward Waliser, Bin Guan, Hengchun Ye, and F Martin Ralph (Dec. 2017a). "Atmospheric River Importance to Extratropical Climate and Hydrology". In: AGUFM. New Orleans, LA.
- **Nash**, **Deanna**, Duane Edward Waliser, Bin Guan, Hengchun Ye, and F Martin Ralph (Apr. 2017b). "How water vapor transport influences precipitation efficiency over high latitudes". In: American Association of Geographers Annual Meeting. Boston, MA.
- Nash, Deanna (Feb. 2016). "Examining Atmospheric Rivers and Aerosols over California". In: CSULA Research Symposium. Los Angeles, CA.
- **Nash**, **Deanna** and Aaron Trefler (Aug. 2016). "Using Satellite Observations to Explore Water Storage and Precipitation". In: Satellites and Education Conference. Los Angeles, CA.
- **Nash**, **Deanna** and Hengchun Ye (Dec. 2016a). "Spatial and Temporal Variability in Precipitation Characteristics in the Western United States". In: AGUFM. San Francisco, CA.

Nash, **Deanna** and Hengchun Ye (Oct. 2016b). "Variability in Precipitation Characteristics in the Western United States". In: American Pacific Coast Geographers conference. Portland, OR.

Nash, **Deanna** and Cerian Gibbes (May 2014). "Examining post-fire landscape change using remote sensing". In: International Fire Conference. Missoula, MT.

EXPERIENCE

Center for Western Weather and Water Extremes

San Diego, CA

Scripps Institution of Oceanography, University of California, San Diego

Postdoctoral ScholarAugust 2022 - present

- Atmospheric Rivers in Southeast Alaska
- National Science Foundation Award: 2052972
- Khutí Project: Understanding Natural Hazards and Supporting Community Response

National Center for Atmospheric Research

Boulder, CO

July 2021

Advanced Student Program Colloquium

- The Science of Seasonal to Subseasonal Predictions
- Group Leads: Aneesh Subramanian and Mike DeFlorio
- Used python to perform S2S hindcast evaluation on Atmospheric Rivers in Western US

Jet Propulsion Laboratory

Pasadena, CA

Intern Earth Sciences Division

October 2015 - September 2017

- Regional Climate Model Evaluation Systems
- Mentor: Duane Waliser
- Used python to help implement software for comparing regional climate models
- Maintained the website with HTML and CSS (rcmes.jpl.nasa.gov)

California State University Los Angeles

Los Angeles, CA

Graduate Assistant Geosciences Lab

October 2015 - June 2016

Assisted students with GIS needs

University of Colorado

Colorado Springs, CO

Research Assistant Department of Geography

September 2014 - January 2015

- Post-fire vegetation regrowth
- Performed geospatial analysis with remote sensing imagery
- Experience in python and IDRISI

Colorado Springs Fire Department

Colorado Springs, CO

Intern Division of the Fire Marshal

July 2013 - January 2014

- Created maps and surveyed wildfire mitigation project areas
- Collected weekly fuels samples to measure fire risk
- Created and maintained web map for Wildland Urban Interface

City of Colorado Springs

Colorado Springs, CO

Information Technology

January 2014 - June 2014

- Developed maps for different city divisions
- Worked in a versioned geodatabase environment
- Experience in python, geocoding, topology editing, linear referencing, and other geoprocessing tools

TEACHING

Summer 2020
Summer 2018
Spring 2017
Fall 2016
rermediate
s
April 2021
April 2021
March 2021
June 2020
October 2019
August 2019
2022
2021–22
2021–22 2018–21
2018–21
2021–22 2018–21 April 2019 2017–18
2018–21 April 2019
2018–21 April 2019 2017–18

 UCCS Letters, Arts, and Sciences Research Grant UCCS Women in Geography Award UCCS Honors Scholarship Program UCCS Reach Your Peak Scholarship Program UCCS Deans and Presidents List 	2013–14 2013–14 2010–14 2010–14 2010–14		
		SERVICE	
		Advanced Graduate Student Mentor UCSB Graduate Scholars Program	Fall 2021–Spring 2022
		oSTEM Mentor out in STEM UCSB chapter	Winter 2021–Spring 2021
		Alumnae Advisory Committee Recruitment Advisor CA Zeta chapter of Pi Beta Phi	Fall 2019–Fall 2022
Chair of the Graduate Advisory Committee Geography Department, UCSB	Fall 2019–June 2022		
Chair of the Lounge Committee Geography Department, UCSB	Fall 2019-Spring 2020		
Member of the Events Committee Department of Geography, UCSB	Fall 2017 -Fall 2019		
 President of the Lambda Pi Chapter of Gamma Theta Epsilon Honor Society Department of Geography, CSULA 	Spring 2016 –Spring 2017		
 Member of the Theta Chi Chapter of Gamma Theta Epsilon Honor Society Department of Geography, UCCS 	Spring 2014		
Member of the Colorado Epsilon Chapter of Pi Beta Phi	Fall 2011 -Spring 2014		

University of Colorado Colorado Springs