

EDUCATION

University of California Santa Barbara

Ph.D. in Geography, Advisor: Leila Carvalho

Santa Barbara, CA

2017–Summer 2022

California State University, Los Angeles

M.A. in Geography, GPA: 4.0

Los Angeles, CA

2015–2017

- Thesis: “Atmospheric River Contributions to Extratropical Poleward Moisture Transports and Atmospheric Water Cycle”

University of Colorado Colorado Springs

B.A. in Geography, GPA: 3.8

Colorado Springs, CO

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

Study Abroad

Granada, Spain

2011–2012

University of Costa Rica

Study Abroad

San Jose, Costa Rica

2014–2014

PUBLICATIONS

Murray, Alan T, Leila Carvalho, Richard L Church, Charles Jones, Dar Roberts, Jing Xu, Katelyn Zigner, and **Deanna Nash** (Sept. 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 (Oct. 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

Mastrantonas, Nikos, **Deanna Nash**, William Schedttic, Alex K. Mitchell, Janak R. Joshi, Michael J. DeFlorio, Aneesh C. Subramanian, and Judith Berner (Jan. 2022). “Subseasonal predictions during the 2017 Oroville Dam Crisis: Role of atmospheric rivers and antecedent synoptic conditions”. In: AMS Annual Conference. Houston, TX.

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: AGU Fall Meeting. 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: AGU Fall Meeting. Washington D.C.

Nash, Deanna and Leila V Carvalho (Oct. 2018b). "What is the impact of Atmospheric Rivers on High Mountain Asia Precipitation?" 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: AGU Fall Meeting. 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: AGU Fall Meeting. 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

National Center for Atmospheric Research

Advanced Student Program Colloquium

Boulder, CO

July 2021

- 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

Intern Earth Sciences Division

Pasadena, CA
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

Graduate Assistant Geosciences Lab

Los Angeles, CA
October 2015 –June 2016

- Assisted students with GIS needs

University of Colorado

Research Assistant Department of Geography

Colorado Springs, CO
September 2014 –January 2015

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

Colorado Springs Fire Department

Intern Division of the Fire Marshal

Colorado Springs, CO
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

Information Technology

Colorado Springs, CO
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

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| • Instructor of Record at University of California Santa Barbara
<i>Introduction to Meteorology (GEOG110)</i> | Summer 2020 |
| • Instructor of Record at University of California Santa Barbara
<i>Waves and Tides in the Ocean (GEOG165)</i> | Summer 2018 |
| • Teaching Associate at California State University Los Angeles
<i>Introduction to Physical Geography (GEOG1600)</i> | Spring 2017 |
| • Teaching Associate at California State University Los Angeles
<i>Introduction to Physical Geography (GEOG1600)</i> | Fall 2016 |

SKILLS

- **Modeling Software:** Advanced Research Weather Research and Forecasting Model
- **Geospatial Software:** ArcGIS and QGIS
- **Remote Sensing Software:** IDRISI and ENVI
- **Language:** Spanish (intermediate)

LANGUAGES

- **Python:** advanced
- **R:** advanced
- **Matlab:** advanced
- **bash:** advanced
- **IDL:** intermediate
- **HTML and CSS:** intermediate

PROJECTS

See full list of projects on dlnash.github.io

- Pyclivac (python, 2020)
Developed a series of python programs and tutorials for beginner climate scientists

PEER REVIEW

- *Journal of Geophysical Research - Atmospheres* April 2021
- *Portuguese Polar Program (PROPOLAR) Project Proposals* April 2021
- *Earth System Science Data* March 2021
- *Environmental Research Communications* June 2020
- *Quarterly Journal of the Royal Meteorological Society* October 2019
- *Portuguese Polar Program (PROPOLAR) Project Proposals* August 2019

SCHOLARSHIPS AND AWARDS

- New Frontiers Graduate Fellow - NSF awards OCI-0725070 and ACI-1238993 2021–22
- NASA Earth and Space Science Fellowship #80NSSC18K1412 2018–21
- Regents Fellowship UCSB 2017–18
- NASA DIRECT-STEM MIRO #NNX15AQ06A 2015–17
- CSULA Gamma Theta Upsilon Scholarship 2016–17
- John David Rees Research Scholarship 2016–17
- Letters, Arts, and Sciences Research Grant 2013–14
- Women in Geography Award 2013–14
- University Honors Scholarship Program 2010–14
- Reach Your Peak Scholarship Program 2010–14
- UCCS Deans and Presidents List 2010–14

SERVICE

- Advanced Graduate Student Mentor Fall 2021–Spring 2022
UCSB Graduate Scholars Program
- oSTEM Mentor Winter 2021–current
out in STEM UCSB chapter
- Alumnae Advisory Committee Recruitment Advisor Fall 2019–current
CA Zeta chapter of Pi Beta Phi
- Chair of the Graduate Advisory Committee Fall 2019–current
Geography Department, UCSB
- Chair of the Lounge Committee Fall 2019–Spring 2020
Geography Department, UCSB
- Member of the Events Committee Fall 2017 –Fall 2019
Department of Geography, UCSB
- President of the Lambda Pi Chapter of Gamma Theta Epsilon Honor Society Spring 2016 –Spring 2017
Department of Geography, CSULA

- Member of the Theta Chi Chapter of Gamma Theta Epsilon Honor Society
Department of Geography, UCCS
- Member of the Colorado Epsilon Chapter of Pi Beta Phi
University of Colorado Colorado Springs

Spring 2014

Fall 2011 –Spring 2014