

## EDUCATION

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### University of California Santa Barbara

Ph.D. in Geography, Advisor: Leila Carvalho

Santa Barbara, CA

2017–current

### 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

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- Nash, Deanna**, Leila Carvalho, Charles Jones, and Qinghua Ding (submitted). “Winter and Spring Atmospheric Rivers in High Mountain Asia: Climatology, Dynamics, and Variability”. In: *Climate Dynamics*. Murray, Alan T, Leila Carvalho, Richard L Church, Charles Jones, Dar Roberts, Jing Xu, Katelyn Zigner, and **Deanna Nash** (2020). “Coastal vulnerability under extreme weather”. In: *Applied Spatial Analysis and Policy*, pp. 1–27. DOI: 10.1007/s12061-020-09357-0.
- 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

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- 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 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: 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

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

## SKILLS

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

## LANGUAGES

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

## PROJECTS

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See full list of projects on [dlnash.github.io](https://dlnash.github.io)

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

## PEER REVIEW

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

## SCHOLARSHIPS AND AWARDS

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| • 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

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| • oSTEM Mentor<br><i>out in STEM UCSB chapter</i>  | Winter 2021–current      |
| • Alumnae Advisory Committee Recruitment Advisor<br><i>CA Zeta chapter of Pi Beta Phi</i>                          | Fall 2019–current        |
| • Chair of the Graduate Advisory Committee<br><i>Geography Department, UCSB</i>                                    | Fall 2019–current        |
| • Chair of the Lounge Committee<br><i>Geography Department, UCSB</i>   | Fall 2019–current        |
| • Member of the Events Committee<br><i>Department of Geography, UCSB</i>   | Fall 2017 –Fall 2019     |
| • President of the Lambda Pi Chapter of Gamma Theta Epsilon Honor Society<br><i>Department of Geography, CSULA</i> | Spring 2016 –Spring 2017 |
| • Member of the Theta Chi Chapter of Gamma Theta Epsilon Honor Society<br><i>Department of Geography, UCCS</i>     | Spring 2014              |
| • Member of the Colorado Epsilon Chapter of Pi Beta Phi<br><i>University of Colorado Colorado Springs</i>          | Fall 2011 –Spring 2014   |