

Anuska Narayanan  
Department of Geography  
The University of Florida  
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256-468-5086

## EDUCATION

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- B.S. The University of Alabama, Tuscaloosa, AL. Spring 2020  
Major: Environmental Science
- B.A. The University of Alabama, Tuscaloosa, AL. Spring 2020  
Major: Foreign Languages and Literature, Italian
- M.S. The University of Alabama, Tuscaloosa, AL. August 2022.  
Major: Geography  
Concentration: Geographic Information Science  
Surface Dynamics Modeling Lab, Department of Geography
- Thesis: “Sediment Response to Deforestation in the Amazon River Basin”
- Ph.D. The University of Florida, Gainesville, FL. *In progress*  
Major: Geography  
Focus Area: Sustainability & Global Environmental Change
- Dissertation Topic: *TBD*

## PROFESSIONAL AND RESEARCH EXPERIENCE

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| Graduate Research Assistant<br>Department of Geography, The University of Florida, | August 2022-Present |
| Graduate Research Assistant<br>Department of Geography, The University of Alabama, | Summer 2022         |

GIS Contractor <i>Actalent</i> for Spire Energy 700 Market Street, St. Louis, Missouri, 63101	April 2022- August 2022
Geo-Intelligence Practicum National Water Center/Lynker The University of Alabama	January 2022- May 2022
GIS Intern Spire Energy, 605 Richard Arrington Jr. Blvd. North, Birmingham, Alabama, 35203	May 2021- April 2022
Field Technician Forest Dynamics Lab, The University of Alabama	Summer 2020
Undergraduate Research Assistant Surface Dynamics Modeling Lab, The University of Alabama	2019-2020
Undergraduate Lab Technician Forest Dynamics Lab, The University of Alabama	2019-2020
Undergraduate Researcher The Earley Lab, The University of Alabama	2018-2020

## TECHNICAL SKILLS

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Geospatial Software (ArcGIS and QGIS)	Google Earth Engine
Programing (Python, JavaScript)	Microsoft Office Suite
Remote Sensing	Statistical Software (IBM SPSS, JMP, and Minitab)
Image Classification	

## FUNDING

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AGU Travel Grant (\$1000) Frontiers in Hydrology San Juan, Puerto Rico	June 2022
CSDMS 2022 Annual Meeting Travel Scholarship Community Surface Dynamics Modeling System, The University of Colorado, Boulder	May 2022

Conference Travel Grant (\$1000) UA Graduate School, The University of Alabama, Tuscaloosa, AL	Spring 2022
Conference Travel Grant (\$1000) UA Graduate School, The University of Alabama, Tuscaloosa, AL	Fall 2021
Education Abroad Grant (\$1000) The University of Alabama, Tuscaloosa, AL	Spring 2018

## PUBLICATIONS

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**Narayanan, A.** & Cohen, S. *Sediment Response to Deforestation in the Amazon River Basin*. In prep.

**Narayanan, A.** & Keellings D. *Developing a Combined Climate Extremes Resilience Index for the Contiguous United States*. In prep.

Cohen, S., Peter, B., Munasinghe, D., Moragoda, N.P., **Narayanan, A.**, Raney., A.A., May., Sera. *Beyond Flood Extent: Augmenting (Remote Sensing) Flood Maps with the new Floodwater Depth Estimation Tool (FwDET v2.0)*. In prep.

Goode, J.D, **Narayanan, A.**, Phillips, D.L., Hart, J.L., Torreano, S.J, Dey, D.C. *Intermediate-severity wind disturbance impacts in a mixedwood forest: a multiscale analysis*. Forest Ecology and Management. Accepted.

Moragoda, N., Cohen, S., Gardner, J. R., Muñoz, D., **Narayanan, A.**, Moftakhari, H. R., & Pavelsky, T. M. (2022). Modeling and Analysis of Sediment Trapping Efficiency of Large Dams using Remote Sensing. Water Resources Research. <https://doi.org/10.1002/essoar.10512009.1>  
Accepted.

## CONFERENCES PRESENTATIONS

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**Narayanan, A.**, Keellings, D., Peter, B. (2022, September) *Mapping the Impacts of Climatic Extremes across the CONUS on the cloud and on-the-fly*. Oral Presentation. Alabama Water Resources Conference, Orange Beach, Alabama. *Accepted for Presentation*.

Cohen, S., Peter, B., Munasinghe, D., Moragoda, N.P., **Narayanan, A.**, A.A., May., S. (2022, June) *Beyond Flood Extent: Augmenting (Remote Sensing) Flood Maps with the new Floodwater Depth Estimation Tool (FwDET 2.1)* Frontiers in Hydrology 2022, San Juan, Puerto Rico.

**Narayanan, A.**, Williams, S., Bates, B. (2022, June) *Land Cover Optimization of the Synthetic Stage-Discharge Rating Curve*. Poster Presentation. Frontiers in Hydrology 2022, San Juan, Puerto Rico.

**Narayanan, A.** & Cohen, S. (2022, May) *Sediment Response to Deforestation in the Amazon River Basin*. Poster Presentation. Community Surface Dynamics Modeling System Annual Meeting 2022, Boulder, Colorado.

**Narayanan, A.** & Cohen, S. (2022, May) *Sediment Response to Deforestation in the Amazon River Basin*. Oral Presentation. European Geophysical Union Annual Meeting, Vienna, Austria. Online.

**Narayanan, A.** & Cohen, S. (2021, December) *The Effects of Deforestation on Suspended Sediment in the Amazon River Basin*. Poster Presentation. American Geophysical Union Fall Meeting, New Orleans, Louisiana.

Cohen, S., Peter, B., Munasinghe, D., Moragoda, N.P., **Narayanan, A.**, Raney., A.A., May., Sera. (2021, December) *Beyond Flood Extent: Augmenting (Remote Sensing) Flood Maps with the new Floodwater Depth Estimation Tool (FwDET v2.0)*. American Geophysical Union Fall Meeting, New Orleans, Louisiana.

**Narayanan, A.**, Larson, R., Faivre, C., Alam S., Keellings D. (2021, September) *Developing a Combined Climate Extremes Resilience Index: A Case Study on the State of Alabama*. Poster presentation. Alabama Water Resources Conference, Orange Beach, Alabama.

## TEACHING EXPERIENCE

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Teaching Assistant, GY 101: <i>Atmospheric Processes and Patterns</i> Department of Geography, The University of Alabama	Fall 2020 – June 2022
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Guest Lecturer, Introduction to GIS, <i>Introduction to ArcGIS Online</i> Department of Geography, The University of Alabama	October 2021
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## PROFESSIONAL MEMBERSHIPS

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European Geophysical Union	January 2022– Present
American Geophysical Union	August 2021 – Present
Forest Stewards Guild	August 2018 – Present

## LEADERSHIP AND AWARDS

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David C. Weaver Memorial Award (\$1,000)	Spring 2022
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President: UA Club Geography	2020-2021
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Vice President: Forest Stewards Guild, UA Student Chapter	2020-2021
Treasurer: UA Club Geography	2019-2020
President: UA Italian Club	2018-2019
President's List	2019-2020
Dean's List	2017-2018
Graduate Honors: Magna Cum Laude, University Honors	2020
Gamma Theta Upsilon: International Geographical Honor Society	2020
Gamma Kappa Alpha: Italian Honor Society	2020

## PROFESSIONAL SERVICE

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Undergraduate Research & Creative Activity (URCA) Conference Judge	2021, 2022
Educational Outreach: Project Learning Tree Woodland Forest Elementary, Tuscaloosa AL	2019, 2021
Educational Outreach: BRIGHT Mentor & Facilitator Crestmont Elementary School, Northport, AL Central Elementary School, Tuscaloosa, AL	2017-2019

## PROFESSIONAL TRAINING

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Global Studies Certificate The University of Alabama	2021
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