

# Sanju khatri

🌐 [Sanjukhatri.com](http://Sanjukhatri.com)

✉ [skhatri2020.fau.edu](mailto:skhatri2020.fau.edu)

in [linkedin.com/in/sanjuk/](https://www.linkedin.com/in/sanjuk/)

## Education

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### Florida Atlantic University

MS in Geosciences GPA: 4.0

Florida, USA

Expected Graduation: December 2021

- Course work: Remote sensing of environment, Principle of GIS, Web GIS, Digital Image Analysis, Experimental design and biometry, Environmental geophysics, Spatial data analysis/scripting in GIS (guest student)

### Tribhuvan University

MS in Mining Geology

Kathmandu, Nepal

2016-2018

### Tribhuvan University

Bachelor of Science in Geology

Kathmandu, Nepal

2011-2015

## Experience

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### Graduate Teaching Assistant

Florida Atlantic University

Florida, USA

Jan 2020-Present

- Moderated the course, Graded assignments, assisted students with their lab works, Conducted discussion forum of 200 student to enhance critical thinking and questioning skill.

### Geologist

Kathmandu Valley Water Supply Management Board

Kathmandu, Nepal

May-Dec 2019

- Prepared database systems, inventory maps and spatial models and the formulated the strategy for conservation and restoration of stone spouts and ponds of Kathmandu Valley. Published book on Stone spouts and ponds of Kathmandu Valley: Status mapping 2019.
- Proposed an alternate water sources that would serve as a contingency plan for the entire capital city to Nepal's government to prepare a 30-year master plan of Kathmandu valley for water supply and management
- Assessed feasibility of rainwater harvesting project at Lakuri Bhangjyan area of Kathmandu Valley using surface water and groundwater resource assessment tools.
- Assessed of recharge systems of Kathmandu Valley for groundwater management.
- Assessed the rate land subsidence in various parts of Kathmandu Valley thorough DGPS survey.
- Assessed of water quality status of various small sized water supply schemes operated by community and small water user groups inside Kathmandu Valley to state on water quality situations, major contamination, existing treatment systems.

### Geologist

Geo Hydro Consult Pvt.Ltd.

Kathmandu, Nepal

Jan-Dec 2019

- Assessed the Groundwater potential of atleast 15 districts of Nepal to groundwater resources for domestic and industrial use.

### Research Assistant

Hokkaido University

Hokkaido, Japan

Jun-Jul 2018

- Petrographic analysis of Lesser Himalaya rocks at Naubise-Tisntung area Nepal, by preparing 30 thin sections.

### Intern geologist

University of Yamanashi

Yamanashi, Japan

Feb-Sept 2016

- collected and organised water sample for chemical analysis. Prepared Geo database, location maps and inventory maps.

## Projects

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- Detected the vegetation change in Mami Dade county after Irma Hurricane Using NDVI.
- Proposed spatial model incorporating contributing factors such that roads, city center, lake river, population density to estimate the land surface temperature in Kathmandu Valley, Nepal.
- Established impact in vegetation with in 11 years of implementation of Kissimmee river restoration project using NDVI differencing.
- Detected forest fire and impact in Brude county California using Landsat 8.
- Created an automated method using model builder in ArcMAP to delineate the of sinkholes in Allapattah Flat using LIDAR DEM.

## Skills

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- Software/tools: ArcMap, ArcGIS pro,QGIS, ENVI, ERDAS IMAGINE, eCognition, Coral Draw.
- Programming Languages: Python, R, Javascript, MATLAB, LaTeX

## Awards

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- Won Three-minute thesis people's choice award 2021 for presenting thesis in three minutes with one slide.
- Won Graduate science scholarship 2020 for academic excellence.
- Won young professionals in space travel grant 2019 (single person from whole country) to attend the conference in Dubai.

- Won Pasang Lhamu student travel grant 2018 to present paper in Geological society of Australia Earth Science Student Symposium-QLD, Australia.
- Won runner up position in national level Terranut Space Project 2018 for designing parachute and safe landing technique of egg thrown from tower

## Conference papers and Presentation

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- Geology of Naubise Tistung area, Lesser Himalaya, Nepal. Ninth Geological Congress, Nov 2019, **Sanju khatri**, Kabi Raj Paudyal
- Geology of Naubise Tistung area, Lesser Himalaya, Nepal. Geological society of Australia Earth Science Student Symposium, Oct 2018, **Sanju Khatri**, Kabi Raj Paudyal.

## Membership

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- American Geophysical Union
- Australian Geological Society
- Geological Society of America
- Phi Kappa Phi
- Nepal Geological Society
- Society for Conservation GIS