SHRADHA SHRESTHA

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ACADEMICS

Rochester Institute of Technology, Rochester, New York

2017 - 2020

M.S. in Environmental Science (GPA: 3.68 out of 4.0)

Relevant Courses: Spatial Algorithm and Problem Solving, Regression Analysis, Hydrologic Application of GIS.

School of Environmental Science and Management (SchEMS), Pokhara University, Kathmandu, Nepal

2010 - 2014

B.S. in Environment Management (GPA: 3.8 out of 4.0)

Thesis: Assessment of Bagmati river encroachment through the application of GIS and Remote Sensing.

Honor award: Dean's list of excellence award.

TECHNICAL SKILLS

- Geospatial: ArcGIS Desktop /Pro/Online, Model-builder, Web AppBuilder for ArcGIS, Story map and QGIS.
- Advanced GIS for hydrology: ArcSWAT, LTHIA, RUSLE, Hotspot analysis, Bathymetry.
- Programming Languages: Python (Numpy, Pandas, ArcPy), JavaScript.
- Data Visualization: Graph, Tableau.
- Databases & Query Languages: SQL.
- Other: Minitab, SAS, SPSS, Cartography.

HONORS & AWARDS

•	Best Data Visualization Award, BrickHacks6 [link]	2020
•	Best Data Mining to help the Community (honorary mention), BrickHacks6 [link]	2020
•	Energy Conference Scholarship, EnergyPath at DeSales University	2019
•	Best Newbie Hacker, Women in Computing Hackathon (WiCHacks 2018) [link].	2018
•	RIT Merit Scholarship (75%)	2017
•	Netherlands Fellowship Program (NFP) for MSc. in Geo-information Science & Earth Observation at	2017
	ITC University of Twente (declined)	
•	Full Merit Scholarship, SchEMS College, Pokhara University	2010

PROFESSIONAL EXPERIENCE

Research Assistant, Rochester Institute of Technology, Aquatic Ecology Lab

Aug 2017- Present

Advisor: Dr. Christy Tyler

Spatial data analysis of INFEWS Project (NSF funded)

- Assessing the ecological impact of food waste digestate storage and disposal on greenhouse gas emissions and water quality using ArcSWAT (hydrological modeling).
- Land Suitability Analysis (GIS-based site-selection model with model-builder and ArcPy).
- Published peer-reviewed research articles [link]. Some submissions are in preparation.

Vanguard Cabinet, a URISA's initiative, an advisory board of passionate, young geospatial professionals.

2020 - 2023

GIS and Data Intern, FracTracker Alliance

Jan 2019 - July 2019

Studying groundwater contamination and air pollution due to hydraulic fracking in California and Colorado using geospatial modeling.

- Determining the current status of groundwater contamination in Colorado state based on literature review and hotspot analysis; a statistically significant GIS-based method.

Knowledge Management Monitoring and Evaluation Officer, Group of Helping Hands (SAHAS Nepal)

2014 - 2017

- Data analysis and field monitoring
- Mapping and geospatial analysis