



Sanyam Ghimire

PhD Candidate

- ▶ **Nationality:** Nepalese
- ▶ **DOB:** 08/03/1997 (27 yrs)
- ▶ **Gender:** Male
- ▶ PhD candidate at NTNU
- ▶ Trondheim, Trøndelag, Norway

Contact

- 📍 Trondheim
Åsvangvegen 22B
- ☎ +47 48658122
- ✉ sanyam.ghimire@ntnu.no
- ✉ sanyamghimire@hotmail.com
- in linkedin.com/sanyamghimire
rg.com/sanyamghimire

Language

- ▶ English- Listening, Reading and Speaking (Fluent, C1)
- ▶ Norwegian - Listening, Reading and Speaking (Medium, B2/C1)
- ▶ Nepali- Native Language

Education

- 2021 - 2023
Master's degree, Hydropower Development, (Grade A)
Norwegian University of Science and Technology (NTNU)
Thesis Title
"Analysis of the measured pore pressure and hydraulic data from Roskrepp hydropower plant".
- 2019 - 2021
Master's degree, Water Resources Engineering, (Distinction, 81.40%)
Pulchowk Campus, Tribhuvan University
Thesis Title
"Assessment of Suspended Sediment Yield from Catchments in Nepalese Himalaya Based on Long-Term Suspended Sediment Data: A Case Study of Kabele River".
- 2013 - 2017
Bachelor's degree, Civil Engineering with Specialization in Hydropower, (Distinction, 3.69 GPA out of 4)
Kathmandu University (KU)
Final Year Project
"Feasibility study of Naugarh Gad Cascade Hydroelectric Project (1200 kW)".

Work experience

PhD candidate

Department of Geoscience and Petroleum, NTNU
Trondheim, Trøndelag

Dec 2022 - Ongoing

Title: Estimation of in situ rock stress for safeguarding unlined pressure tunnels.

Researcher, Fulltime

Department of Geoscience and Petroleum, NTNU
Trondheim, Trøndelag

June 2022 - Nov 2022

Developing large scale 3D in situ rock stress map under NoRSTRESS project.

Teaching Assistant, Parttime

Department of Geoscience and Petroleum/ Department of Civil and Environmental Engineering
Trondheim, Trøndelag

Aug 2022 - April 2023

Assistance to professor in solving questions and queries in four courses (Hydrology, Planning and Design of Dams, Engineering Geology and Planning of Hydropower)

Technical Assistant, Summer Intern, Fulltime

Department of Geoscience and Petroleum, NTNU
Trondheim, Trøndelag

July 2022 - Aug 2022

- Responsible for handling the instrumented data at Roskrepp Hydropower Project
- Research on separating natural frequency of surge waves at Roskrepp Hydropower during normal and emergency shutdown

Graduate Student Research Assistant, Parttime Norwegian Hydrotechnical Laboratory, NTNU

Trondheim, Trøndelag -Culvert Hydraulics: Setting up and experimenting hydraulic performance of culvert with different combinations of inlet and blockage elements
-Record measurements of different hydraulic parameters

Hydropower Engineer, Fulltime (3years 8 months)

Hydrotunnelling and Research Pvt. Ltd.
Kalikasthan, Kathmandu-29

Dec 2017 - July 2021

Engineering Intern, Fulltime (2 months)

May 2017 - Jun 2017

API Power Company Limited
4th Floor, Trade Tower Nepal, Thapathali, Kathmandu

- Involved in site inspection of construction work of Upper Naugarh Gad Hydroelectric Project (8 MW)
- Reported operation status of Naugarh Gad Hydroelectric Project (8.5 MW)
- Conducted field survey with total station, hydraulics and structural design of Naugarh Gad Cascade Hydroelectric Project (1.2 MW)
- Prepared an investigatory report on Naugarh Gad Cascade Hydroelectric Project

Skills

Engineering Geology: Rocscience Software (Phase-2, Slide, Dips), SEEP/W, UDEC, FLAC 3D

Hydropower related: Hydropower Project Layout and Planning/ Planning and Design of Dams/ Sediment Management, Tunnel Planning

Geographic Information System: Arc and Q GIS (Advanced) with python integration

Hydrologic and Hydraulic Modelling: SWAT+, HEC-HMS, HBV, WEAP, CROPWAT, HEC-RAS

Programming: R/ Python/ Fortran

Software: Autodesk Revit, Autodesk Civil 3D, Auto CAD, STAAD-Pro, SAP 2000, RESCON 2, Rhino 3D

Trainings and Certifications

- Participated in training on *Managing sedimentation risk in hydropower projects: Application of REServoir CONservation (RESCON 2) Model*, ICIMOD, September 25-27, 2022
- Participated in one day International workshop on *Tunnel Construction Practices in the Himalaya*, in collaboration with NTNU, May 18, 2019, Dhulikhel.
- Attended an International Workshop on *Sediment Management in Hydropower Development and Operation*, in collaboration with Hydrolab and ICH, October 02-08, 2018, Kathmandu.
- Participation in *4-Days Training on Design and Analysis of Underground Structures in Himalayan Region of Nepal Using Rocscience Software*, July 2-5, 2017.

Publications

- Ghimire S, Singh U, Panthi KK, Bhattarai PK. Suspended Sediment Source and Transport Mechanisms in a Himalayan River. *Water* 2024; 16(7):1063.
- Ghimire S., Panthi K. K. and Vereide K. 2023. Hydraulic Transient Impact on Surrounding Rock Mass of Unlined Pressure Tunnels. *Water* 2023 (15), 3894, 25p.
- Ghimire, S., Singh, U., and Bhattarai, P. K. (2021). Generation of a Suspended Sediment Rating Curve of a Himalayan River based on a Long-term Data: A case study of Kabeli River. *Proceedings of 10th IOE Graduate Conference*, 8914, 1110–1118.

Academic Experience

Supervised Bachelor's Civil Engineering Students at Institute of Engineering, Nepal for Final Year Project in Prefeasibility of Hydropower Projects (Year 2021-2022)