

Faisal B. Ashraf

601 South Peters Road, apartment 87
Knoxville, 37922,
United States.
ashraffb@ornl.gov | faisalashrafmir@gmail.com
Linkedin : [FB Ashraf](#)
Google Scholar : [FB Ashraf](#)
+18654040403

EDUCATION	<p>University of Oulu, Finland. <i>May' 16 - April' 20</i> <i>PhD (Tech.)</i> Water, Energy and Environmental Engineering Research Unit. Thesis Title: River regimes and energy demand interactions in Nordic rivers. Principal Supervisor: Prof. Bjørn Kløve. Examiners: Prof. Castelletti Andrea Francesco and Prof. Tor Haakon Bakken. Opponent: Prof. Miroslav Marenc.</p> <p>University of Oulu, Finland. <i>September' 14 - Feb' 16</i> <i>MSc. (Tech.),</i> Water Resources and Environmental Engineering.</p> <p>University of Kashmir, Jammu and Kashmir, India. <i>July' 08 - Dec' 12</i> <i>B.E.</i> Civil Engineering.</p>
RESEARCH INTERESTS	Environmental flows, Role of hydropower in changing energy market, Northern hydrology, Rivers and streams restoration, Human-river interactions, Eco-hydraulics, Compound flood modelling.
RESEARCH AND PROFESSIONAL EXPERIENCE	<p>Postdoctoral Research Associate, Oak Ridge National Laboratory <i>August' 23 - Current</i> Projects: -Quantifying Greenhouse Gas Emissions from Hydropower Reservoirs. -A Roadmap to Intelligent Watersheds. -Non-powered Dam Development Opportunities.</p> <p>Research Fellow(sustainable hydropower), Stockholm Environment Institute <i>July' 22 - July' 23</i> Projects: -Water in the fossil-free transition: A system approach to governing the water-energy nexus.. -Gridless Solutions: Providing off-grid electricity, sanitation and freshwater. -HydroHazard: Evaluating the damage that may be caused by multiple water hazards and provides policy recommendations and actions for mitigation and adaptation.</p> <p>Senior Environmental Consultant / Project Manager, Earthster <i>Feb' 22 - July' 22</i> Duties: -Training and supporting partners and customers in implementing LCA projects. -Creating partner and customer relationships. -Organizing and leading regular customer project meetings. -Clearly communicate objectives, timelines, project status, on a regular and consistent basis. -Provide LCA professional guidance to partners and customers to ensure projects stay on track.</p> <p>Postdoctoral Researcher, University of Oulu <i>May' 20 - Feb' 22</i> Projects: -Ecoriver: Assessing and valuing ecosystem services for managing hydropower constructed rivers systems. -Biowater: An integrating nexus of land and water management for a sustainable Nordic bioeconomy</p> <p>Project Researcher, University of Oulu <i>March' 16 - May'20</i> Project: -Changing river regimes: Analysis of changes in climate and energy demand interactions in northern rivers. <i>May' 16 - Dec2019</i></p> <p>Visiting Scholar, University of California at Berkeley <i>Aug' 19 - Jan'20</i> Duties: -Worked with the United States National Park Service (NPS) to evaluate variability and long-term trends</p>

in the Bay area stream discharge.

- Surveyed and reported post-project appraisal of the Wingfield whitewater park project on Truckee river, at Reno, Nevada, United States.

Soil Conservation Expert, *Department of rural development, Integrated Watershed Management Program, Govt. of India.* *January' 14 - August' 14*

-Surveying, project cost estimation and design of soil retaining structures.

-Preparing Detailed Project Reports (DPR).

-Formulating and implementing soil conservation methods.

GRANTS AND AWARDS

Nessling Foundation PhD Research project grant, 98000€ (2017-2019)

Maa-ja Vesi Teknikaan Tuki (MVTT) grant, 12000€ (2019)

Sven Hallin Foundation grant, 3000€, (2019)

University of Oulu Scholarship Foundation grant, 5000€, (2019)

Olvi Foundation grant, 3000€, (2018)

University of Oulu Scholarship Foundation grant, 5000€, (2018)

Olvi Foundation grant, 7000€, (2016)

Maa-ja Vesi Teknikaan Tuki (MVTT) grant, 1800€ (2016)

COMPUTER SKILLS

Languages: R, Matlab (Basic), L^AT_EX.

Drafting, Structural Analysis and Design: AutoCAD, Tekla structures.

Geospatial and River data analysis: IHA, HEC-RAS, WEAP, ArcGIS

LANGUAGES

Hindi (Mother Tongue), **English** (Fluent), **Finnish** (Basic), **Swedish** (Beginner) **Urdu** (Fluent).

EXTRA INTERESTS

Hobbies Hiking, Cricket, Tennis, Cooking, Travelling.

Literary Interests: Hiking, Camping, Philosophy, Science Fiction.

REFEREES

Professor Björn Klöve, University of Oulu, bjorn.klove@oulu.fi, Phone number: +358 294 48 4510, +358 40 594 4514

Assistant Professor Hannu Marttila, University of Oulu, hannu.marttila@oulu.fi, Phone number: +358 294 48 4393

Professor G. Mathias Kondolf, University of California, Berkeley, Kondolf@berkeley.edu, Phone number: +1510-664-7804

Carly Hansen, Oak Ridge Natinal Laboratory, hansench@ornl.gov, Phone number: +1-865-574-0293