

## Dr. Adani Azhoni

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### **Summary of experiences: 11 years**

- **Visiting Assistant Professor.** Department of Energy, Environment and Climate Change; School of Environment, Resources and Development. **Asian Institute of Technology. Bangkok Thailand.** (August 2022 to December 2022)
  - **Assistant Professor Grade I,** Department of Civil Engineering. **National Institute of Technology Karnataka.** Since May 2018
  - **Assistant Professor (Grade II),** Civil Engineering Department (Environmental Engineering Division), **National Institute of Technology Warangal.** 2018
  - **Post-doctoral Research Associate (III) at Indian Institute of Technology, Guwahati,** on *climate change adaptation for irrigation in the Himalayan state of Sikkim.* 2017
  - **Scientist B (Assistant Director), Bureau of Indian Standards.** ISO/IEC 17025 Laboratory Quality Management System and ISO/IEC 14001 Environmental Management System. 2006-2012
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### **Educational Qualification:**

- **PhD** at Cranfield Water Science Institute, **Cranfield University,** United Kingdom. Research highlight: *Adapting water management to climate change: institutions, networks and barriers.* 2012-2016
  - **Master of Technology,** Environmental Engineering & Management, **Indian Institute of Technology, Delhi.** Research highlight: Sulfur dioxide deposition from thermal power plants. 2004-06
  - **Bachelor of Engineering** in Civil Engineering, **Saurashtra University,** 2000-04
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### **Research projects:**

- Random Verification of Hazardous Waste Management. PJ-99/12/2021-WM-II-HO-CPCB-HO dated 10-Aug-2021 (Completed in March 2022).

- SEELARI: Socio-economic-environmental trade-offs in managing Land-River interface. Case study based in Himachal Pradesh. Trilateral research project with Cranfield University UK and Peking University China Sponsored by DBT-GoI under the *Towards a Sustainable Earth Scheme* Grant No.:BT/IN/TaSE/69/AA/2018-19 (Completed in June 2022)
  - SEIBOCCA: Socio-Economic and Institutional Barriers of Climate Change Adaptation. Funded under the IMPRESS Project Grant No. IMPRESS/P765/2018-19/ICSSR (Completed in December 2021)
  - Climate change impacts for irrigation water management in Sikkim sponsored by Department of Science & Technology, Government of India. (Completed in September 2017)
  - Mitigating Impacts of Climate Change. Case study area: Himachal Pradesh. Sponsored by Ministry of Earth Sciences, Government of India, UK Natural Environment Research Council and Jack Wright Scholarship UK Irrigation Association. (Completed 2014).
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#### **Recent research papers:**

- Rehman, S. and **Azhoni, A.** (under review). *Analyzing landslide susceptibility, health vulnerability and risk using Multi Criteria Decision Making Analysis in Arunachal Pradesh, India.* Acta Geophysica. Springer.
- **Azhoni, A.**, Holman, I., and Grabowski, R. *Identifying evolving priorities in national river governance from Parliamentary Questions.* Water Policy (2022). <https://doi.org/10.2166/wp.2022.125>
- Rehman, S., **Azhoni, A.** and Pooja, C. *Livelihood vulnerability assessment and climate change perception analysis in Arunachal Pradesh, India.* GeoJournal (2022). <https://doi.org/10.1007/s10708-022-10703-7>
- Vercruyssen, K., Grabowski, R., Holman, I. **Azhoni, A.** et al. *Placed-based interpretation of the Sustainable Development Goals for the land-river interface.* Sustain Sci (2022). Vol. 17, pages1695–1714 27 June 2022 <https://doi.org/10.1007/s11625-022-01176-1>
- Rehman, S., Jahangir, S. and **Azhoni, A.** *GIS based coastal vulnerability assessment and adaptation barriers to coastal regulations in Dakshina Kannada district, India.* Regional Studies in Marine Science. Vol. 55, September 2022, 102509. <https://doi.org/10.1016/j.rsma.2022.102509>.
- Grabowski, R., Vercruyssen, K., Holman, I. **Azhoni, A.** et al. *The land–river interface: a conceptual framework of environmental process interactions to support*

*sustainable development*. Sustain Sci (2022). Vol. 17, 13 May 2022 pages 1677–1693. <https://doi.org/10.1007/s11625-022-01150-x>

- Nair, S., Manu, B., and **Azhoni, A.**, *Sustainable treatment of paint industry wastewater: Current techniques and challenges*. Journal of Environmental Management. Volume 296, 15 October 2021, 113105. <https://doi.org/10.1016/j.jenvman.2021.113105>
- **Azhoni, A.**, Holman, I. and Jude, S.: *Adapting to climate change by water institutions: enablers and barriers*. Journal of Hydrology. Vol 559. April 2018 Pages 736-748 <https://doi.org/10.1016/j.jhydrol.2018.02.047>
- **Azhoni, A.**, Goyal, M.K.: *Diagnosing climate change impacts and identifying adaptation strategies by involving key stakeholder organisations and farmers in Sikkim, India: Challenges and opportunities*. Science of the Total Environment. Volume 626, 1 June 2018, Pages 468-477 <https://doi.org/10.1016/j.scitotenv.2018.01.112>
- **Azhoni, A.**, Holman, I. and Jude, S: *Adapting water management to climate change: institutional involvement and inter-institutional networks*. Global Environmental Change. Vol 44, May 2017, Pages 144–157 <http://doi.org/10.1016/j.gloenvcha.2017.04.005>
- **Azhoni, A.**, Holman, I. and Jude, S: *Contextual and interdependent causes of climate change adaptation barriers for water management: evidences from Himachal Pradesh, India*. Science of the Total Environment. Volume 576, 15 January 2017, Pages 817–828 <http://doi.org/10.1016/j.scitotenv.2016.10.151>

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### **Book Chapter:**

- **Azhoni, A.** Climate Change Adaptation for Sustainable Management of Water in India: Issues and Challenges. In *Sustainability: Fundamentals and Applications*. Eds. Rao Surampalli, Tian Zhang, Manish Kumar Goyal, Satinder Brar, and R Tyagi. Wiley. ISBN:9781119433965 <https://doi.org/10.1002/9781119434016.ch21>

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### **Conference Presentations:**

- **Azhoni, A.**, Holman, I. and Grabowski, R., *Regulation of Human Impacts on the Riverine Ecosystem: Perspectives of Indian Parliamentarians*. Abstract ID#H42H-04. American Geophysical Union. Fall Meeting. New Orleans 12-17 December 2021.
- **Azhoni, A.**, and Tilling, R. *When Drought Happens: Practices of Tribal Farmers of Northeast India and Prospects for Climate Change Adaptation*. Paper ID#848102. American Geophysical Union. Fall Meeting. New Orleans 12-17 December 2021.

- **Azhoni, A.**, Holman, I. and Jude, S. *Multi-scale adaptation barriers within water management institutions in India*. 5th International Climate Change Conference. Adaptation Futures 2018. Cape Town. 2018-06-18
  - **Azhoni, A.**, Goyal. M. K. Stakeholders participatory diagnosis of climate change impacts on subsistence agriculture in Sikkim, India, for identifying adaptation strategies. American Geophysical Union. 2017-12-18 | paper-ID: GC33A-1068
  - **Azhoni, A.** Climate Change Adaptation by Water Institutions in India: Networks and barriers. Newton Fund Researcher Links. 7 to 9 September 2016. Puebla, Mexico
  - **Azhoni, A.**, Holman, I. and Jude, S. *Contextual and interdependent causes of climate change adaptation barriers for water management: responses from regional and local institutions in Himachal Pradesh, India*. European Geosciences Union General Assembly 2016. Vienna 2016-04-18 | paper-ID: EGU2016-10022
  - **Azhoni, A.**, Holman, I. and Jude, S. *Enhancing Hydrological Data Collection Network, Inspiring Research and Appreciation of the Value of Water in Low Income Countries through School Education*. American Geophysical Union Fall Meeting 2014. San Francisco. 2014-12-15 | paper: ED21F-04
  - **Azhoni, A.**, Holman, I. and Jude, S. *Understanding Indian Institutional Networks and Participation in Water Management Adaptation to Climate Change*. American Geophysical Union Fall Meeting 2014. San Francisco. 2014-12-14 | conference Abstract ID: H13A-1037
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### ***Research interests and teaching:***

- Climate change adaptation
  - Environmental management and policy
  - Disaster mitigation and management
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