

DR. VITTAL H.

Assistant Professor, Indian Institute of Technology (Indian School of Mines), Dhanbad, India

✉ vittal@iitism.ac.in |  [Google Scholar](#) |

Research and Professional interest:

Climate vulnerability, climate adaptation, climate risk, Hydroclimatology, dynamics of Indian summer monsoon rainfall, heatwaves, drought, tropical cyclones

Education:

Indian Institute of Technology Bombay, Mumbai

India

Doctor of Philosophy

July 2011 - March 2017

- Environmental Engineering; 9.0 (C.P.I)

National Institute of Technology Karnataka, Surathkal

India

Master of Technology

August 2009 – June 2011

- Environmental Engineering; 8.26 (C.P.I)

Sri Jayachamarajendra College of Engineering, Mysore

India

Bachelor of Engineering

August 2005 – June 2009

- Environmental Engineering; 75% (First class with distinction)

Research and teaching experience:

Assistant Professor Grade-1

Jan 2022 – Present

Department of Environmental Science and Engineering

IIT (ISM), Dhanbad, India

Researcher

October 2019 – December 2021

Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany

- My research work in UFZ mainly focuses on assessing the extremity of recent European drought events in perspective of long-term (i.e. 250- year) period. I also work on improving the understanding of physical mechanism responsible for these extreme drought genesis. In UFZ, I am associated with the project XEROS (eXtreme EuRopean drOughtS: Multimodel synthesis of past, present and future events). The complete description of this project can be seen in  [XEROS](#).

Postdoctoral Research Fellow

August 2018 – July 2019

Fulbright-kalam climate fellowship

IIHR– Hydrosience and Engineering, Iowa, USA

- Procured the prestigious Fulbright-kalam climate fellowship to work with Prof. Gabriele Villarini, University of Iowa, USA. My research work from this fellowship was on understanding the dynamics of Indian summer monsoon rainfall and also uncovering the aspects of physical mechanism responsible for heatwaves over India – both with observational and climate model perturbation experiment.

Assistant Professor*Department of Civil Engineering*

August 2017 – July 2018

Manipal Institute of Technology, Manipal, India

- Taught under-graduate and post-graduate level courses pertaining to Environmental Engineering. Guided four under-graduate and a post-graduate thesis.

Research Associate*Centre for Environmental Science and Engineering, now ESED*

Jan 2017 – July 2017

IITB, Mumbai, India

Awards and fellowship:

- **Fulbright-Kalam Fellowship–2018** from United states-India Education Foundation (USIEF) for pursuing post-doc related to climate change in IIHR–Hydroscience and Engineering, University of Iowa, USA for the year 2018–19
- Received **IITB Award for Excellence in Thesis work** for the year 2015–2017 for the outstanding research contributions
- Received **International Travel Support** from Science and Engineering Research Board (SERB; a statutory body under department of science and Technology), India to attend AGU meet 2015
- Received partial funding of 1000\$ from **AGU Natural Hazards Focus Group** to attend AGU meet 2015
- Served as a reviewer for **Journal of Climate, Water Resources Research, Environmental Research Letters, Geophysical Research Lettes, Scientific Reports, Hydrology and Earth System Sciences** and many more

Sponsored Project proposals:

1. Attribution of climatic factors influencing the changes in Indian monsoon rainfall extremes and mapping the associated risk to facilitate decision-making, **PI**, United States-India Education Foundation (USIEF), Fellowship award [completed; 08/2018 – 08/2019].
2. Recent Arctic Amplification and Increasing Heatwaves over India, **PI**, Faculty Research Grant, IIT ISM, INR 14 Lakhs [Completed].
3. Coastal Risk Analysis (CORAL): An India's perspective, **PI**, SERB SRG, INR 21 Lakhs [Completed].
4. Near-time flash flood forecasting in mining affected catchments: integrating hydrological models, altered topography and weather data, **PI**, Ministry of Coal, INR 2.19 Cr [ongoing]

Personal Details

Name as on Passport:	Vittal Hari
Nationality:	Indian
Date of Birth:	7th July 1987
Languages:	English (professional proficiency), Hindi, Kannada (native proficiency)
Gender:	Male
Martial Status:	Married