



Ankit Deshmukh

ASSISTANT PROFESSOR

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I have recently discovered Comet Dibiasky that is approximately 10-15km in size, and based on my orbital calculations is estimated to strike Earth in 6 months and 14 days

BRIEF BIO-SKETCH

I am currently working as an assistant professor in the Department of Civil Engineering at Pandit Deendayal Energy University, Gujarat, India. I have obtained a doctoral degree in Water resources from the Indian Institute of Technology, Hyderabad (Jan 2021). My fields of interest are Computational Hydrology, water resource management, and understating the catchment response under anthropogenic changes. In my doctorate, I worked on the approaches to identify the catchment vulnerability to environmental changes. My current research focuses on the development of a Physio-climatic catchment characteristics dataset for the Indian subcontinent that can be utilized for prediction in the ungauged basins. I possess a strong understanding of GIS processing, and efficient in Geo-spatial analysis. I am highly motivated in the field of data analysis (finding meaningful insights in data), skilled in programming with R, MATLAB, and Python scripting, and looking for inter-disciplinary research opportunities and collaboration. I am a passionate learner and trying to be a better teacher.

*Pandit Deendayal Energy University
(PDEU)*

2012 - 2013

ASSISTANT PROFESSOR

- Teaching GIS and Remote sensing. Research in Water Resource and Climate Change.

*Indian Institute of Technology
Hyderabad (IITH)*

2016 - 2017

SENIOR RESEARCH FELLOW

- Teaching assistant and Research

*Indian Institute of Technology
Hyderabad (IITH)*

2018 - 2021

JUNIOR RESEARCH FELLOW

- Teaching assistant and Research

Education

University Education

Indian Institute of Technology Hyderabad

Hyderabad, India

DOCTOR OF PHILOSOPHY (PH.D.)

2016-2021

- Supervisors: Prof. Kirsten B. Holven (main supervisor), PhD, Prof. Kjetil Retterstøl, MD, PhD, and Prof. Leiv Ose, MD, PhD. Title of doctoral thesis: Early life cholesterol exposure in children with familial hypercholesterolemia and healthy children (approved 30.05.2017, defended 21.08.2017).

Indian Institute of Technology Hyderabad

Hyderabad, India

MASTER OF TECHNOLOGY

2014-2015

Bansal Institute of Science and Technology

Bhopal, India

BACHELOR OF ENGINEERING

2009-2013

Selected Courses

2014-2014 CH9130 –Nature Inspired Optimization

*Indian Institute of
Technology
Hyderabad*

Work Experience

Professional Positions

Pandit Deendayal Energy University (PDEU)

ASSISTANT PROFESSOR

- Teaching GIS and Remote sensing. Research in Water Resource and Climate Change.

Gandhinagar, India

2012 - 2013

Other Positions

Indian Institute of Technology Hyderabad (IITH)

JUNIOR RESEARCH FELLOW

- Teaching assistant and Research

Hyderabad, India

2018 - 2021

Indian Institute of Technology Hyderabad (IITH)

SENIOR RESEARCH FELLOW

- Teaching assistant and Research

Hyderabad, India

2016 - 2017

Publications

Scientific Publications

1. Singh, R., Sai, V., & Deshmukh, A. (2017). Assessing the vulnerability of water availability across India to climate change and interlinking of rivers. In *Sustainable Holistic Water Resources Management*. M/S Jain Brothers, New Delhi.
2. Deshmukh, A., & Singh, R. (2016). Physio-climatic controls on vulnerability of watersheds to climate and land use change across the U. S.: CONTROLS ON VULNERABILITY. *Water Resources Research*, 52(11), 8775–8793. <https://doi.org/10.1002/2016WR019189>
3. Deshmukh, A., & Singh, R. (2019). A Whittaker Biome-Based Framework to Account for the Impact of Climate Change on Catchment Behavior. *Water Resources Research*, 55(12), 11208–11224. <https://doi.org/10.1029/2018WR023113>
4. Deshmukh, A., & Kumari, S. (2022). The impact of climate change on meteorological drought across the Indian sub-continent. *18th Annual Meeting of the Asia Oceania Geosciences Society*, 88–90. https://doi.org/10.1142/9789811260100_0030

Other Publications

Grants and Awards HONORS & AWARDS

Award

BEST ARTICLE 2016

- Christensen JJ J Clin Lipidol 2016 (shared)
- Christensen JJ J Clin Lipidol 2016 (personal)

Throne-Holst stiftelse

05/2017

Travel grant

COURSE TRAVEL GRANT

- Travel grant to participate at the course 'Introduction to nutritional metabolomics' in Copenhagen, Denmark

NuGO

02/2017

Travel grant

CONFERENCE TRAVEL GRANT

- Travel grant to participate at the 17th International Symposium on Atherosclerosis (ISA 2015) in Amsterdam, the Netherlands

ISA

02/2015

Previous Grant Support

THE STORK CHILDREN PROJECT

- To examine the long-term effect of in utero hypercholesterolemic, pro-thrombotic and pro-inflammatory environment on risk markers of disease in children 6-12 years after birth.

Mills DA (1 kr til Hjertesaken)

04/2015

Presentations

Invited Presentations

NORDIC METABOLOMICS SOCIETY WORKSHOP AND THRONE HOLST SYMPOSIUM (FACULTY OF MEDICINE)	10/2019
• Diet-derived fruit and vegetable metabolites suggest sex-specific mechanisms conferring protection against osteoporosis in humans	
DEPARTMENT SEMINAR (INST. INTERNAL MEDICINE, OUH)	01/2018
• Statistics and bioinformatics for translational research	
THRONE HOLST STIFTELSE FESTAFTEN (DEPARTMENT OF NUTRITION)	05/2017
• LDL cholesterol in early pregnancy and offspring cardiovascular disease risk factors	
ERNÆRINGSUTDANNINGEN 50 ÅR (DEPARTMENT OF NUTRITION)	11/2016
• Hva har ernæringsutdanningen betydd for meg? (What did my training in nutrition and dietetics mean to me?)	
NUGO WEEK (COPENHAGEN, DENMARK)	09/2016
• High maternal LDL-C in pregnancy and offspring CVD risk factors at 6-13 years	
THRONE HOLST STIFTELSE FESTAFTEN (DEPARTMENT OF NUTRITION)	05/2016
• What is the impact of maternal inheritance of FH on lipids and CRP in children with FH?	

Other Contributions

SEMINARS	2016-2020
• 4 contributions for Department Seminar at Department of Nutrition; Department of Immunology	
POSTERS	2014-2019
• 13 contributions for The American Society for Bone and Mineral Research Conference, Scandinavian Society of Atherosclerosis Research (SSAR) Conference, Throne Holst Stiftelse Festaften, Norwegian Association of Clinical Dietitians (KEFF) Conference, Nordic Nutrition Conference (NNC), International Atherosclerosis Society (IAS) at Orlando, FL, USA; Humlebæk, Denmark; Department of Nutrition; Oslo, Norway; Gothenburg, Sweden; Amsterdam, The Netherlands	
MODERATED POSTERS	2017-2017
• 1 contributions for European Atherosclerosis Society (EAS) at Prague, Czech Republic	

Activities

Educational Activities

MASTER'S CO-SUPERVISOR (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	07/2020 - Present
• Co-supervision together with Stine Ulven (main supervisor) and Inger Ottestad.	
MASTER THESIS OPPONENT (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	05/2020 - Present
• External sensor for a data science-oriented Master Thesis.	
GROUP TEACHING (LSB) (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	04/2020 - 06/2020
• LSB teaching for nutrition students. Topics: molecular biology, cell biology, and the like.	
RESEARCH SEMINAR (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	03/2020 - Present
• Weekly gettogether in the form of a short 'kollokvie'; see github.com/jacobjchristensen/research-seminars .	
WORKSHOP (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	12/2019 - 12/2019
• Hands-on session of data science topics: data analysis, data visualizations, forestplots, and R in general.	
GROUP TEACHING (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	09/2016 - 11/2016
• Clinical communication skills, teaching for under-graduate students.	
MASTER'S CO-SUPERVISOR (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	08/2016 - 08/2016
• Short introduction lecture for new students in nutrition and dietetics.	
LECTURE (PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR)	2014 - 2016
• 3 contributions: Short introduction lecture for new students in nutrition and dietetics.	

Service Activities

CRITERIA - 7 CONVANER FOR NBA	01/2021-01/2022
• Pandit Deendayal Energy University, Gandhinagar	
LEADER KEFF NOMINATION COMMITTEE	03/2019-03/2019
• Pandit Deendayal Energy University, Gandhinagar, Gujarat, India	

- Scandinavian Society of Atherosclerosis Research (SSAR) Conference

Editorial Activities

PEER REVIEW ACTIVITIES

2021 - 2023

- An integrated modelling approach to evaluate the impacts of nature-based solutions of flood mitigation across a small watershed in the south-east United States, Nutrition, Metabolism and Cardiovascular Diseases

0.0.1 PROFESSIONAL EXPERIENCE

0.0.2 EDUCATION

0.0.3 SKILLS

0.0.4 PUBLICATIONS

PEER REVIEW ARTICLES

BOOK CHAPTERS

CONFERENCE PROCEEDING

EXTRACURRICULAR ACTIVITY

TEACHING EXPERIENCE AND MENTORING

1. Ankit Deshmukh & Shweta Kumari Sensitivity Analysis and Validation of the Groundwater Vulnerability Assessment Using the SINTACS method: Application to Raipur and Naya Raipur, Chhattisgarh, India. DEC 2022
 2. Ankit Deshmukh & Shweta Kumari Understanding hydrological drought with the combination of catchments' physio-climatic characteristics and meteorological drought for Indian catchments DEC 2022
 3. Ankit Deshmukh & Shweta Kumari Comparison of image processing techniques to identify the land use/ land cover changes in the Indian semi-arid region. AUG 2022
 4. Ankit Deshmukh, Vishal Rakhecha An enhanced bottom-up approach to assess the catchments' vulnerability to climate change. AUG 2022
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2. Dr. Ankit Deshmukh and Shweta Kumari The impact of climate change on meteorological drought across the Indian sub-continent AUG 2022