

## PERSONAL INFORMATION

## ADITYA RAHUL



📍 G-4, MR Chopra Bhawan, IIT Roorkee, Roorkee, Uttarakhand, India - 247667

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Sex Male | Date of birth 13/06/1986 | Nationality Indian

## WORK EXPERIENCE

December'16 to Current

**PhD research scholar**

Indian Institute of Technology Roorkee || Funded by Ministry of human resource development, India

December'15 to October'16

**Assistant Professor**

University Institute of Architecture, Chandigarh University – Punjab

- Taught urban planning, climatology and architectural design to Bachelors of Architecture students.
- Organise conferences.
- Conduct workshops.
- Supervise B.Arch thesis.

July'14 to December'15

**Assistant Professor**

Chitkara School of Planning and Architecture, Chitkara University – Punjab

- Taught urban design, climatology and architectural history to Bachelors of Architecture students.
- Organise conferences.
- Supervise B.Arch thesis.
- Prepare question papers.

May'13 to July'13

**Architect Trainee**

Open Plan Studio, Karnal, Haryana

- Contributed in design of various urban planning projects.

August'11 to July'12

**JRF**

Centre for Disaster Mitigation and Management, IIT Roorkee

- Analysed seismic behaviour patterns of different building typologies present in Himalayas.

June'09 to November'09

**Architect Trainee**

Creator Architects, New Delhi

- Designed and executed various architectural projects.

## EDUCATION

December'16 to Present

**PhD**

Indian Institute of Technology Roorkee, India

Thesis Title: Impact Analysis of Bluespace on Urban Heat Island in Composite Climate

July'12 to Jun'14

**Masters of Architecture (M.Arch)**

Indian Institute of Technology Roorkee, India

Thesis Title: Structural Analysis of Vernacular architecture in Indian Himalayas.

June'06 to May'11

**Bachelor of Architecture (B. Arch)**

National Institute of Technology Hamirpur, India

## PUBLICATIONS: Journal and Conference

Rahul A., Edupuganti S.R., Naorem V., Mukherjee M., Brooks T. (2021) Urban Risk Assessment Tools and Techniques for Ecosystem-Based Solutions. In: Mukherjee M., Shaw R. (eds) Ecosystem-Based Disaster and Climate Resilience. Disaster and Risk Research: GADRI Book Series. Springer, Singapore. [https://doi.org/10.1007/978-981-16-4815-1\\_11](https://doi.org/10.1007/978-981-16-4815-1_11)

Rahul, A., Mukherjee, M., & Sood, A. (2020). Impact of ganga canal on thermal comfort in the city of Roorkee, India. *International Journal of Biometeorology*, 64(11), 1933–1945. <https://doi.org/10.1007/s00484-020-01981-2>

Rahul, A. & Mukherjee, M. (2020). Investigating the impact of urban morphology on Urban heat island effect in subtropical humid Climate through remote sense data: *Proceedings Vol. 1, 8th International Conference on Cartography and GIS*, 2020, Nessebar, Bulgaria

Rahul, A. & Mukherjee, M. (2020). Impact analysis of dynamic bluespace on human biometeorology: *proceedings of "Symposium On Challenges In Applied Human Biometeorology"*, 2-3 March, 2020, Freiburg, Germany

Rahul, A. & Mukherjee, M. (2019). Impact Analysis of Dynamic Bluespace on Urban Heat Island: Case of Roorkee: *proceedings of 8th APHW Conference on "Emerging Techniques in Urban Water Management"*, 23-25 November, 2019, Indian Institute of Technology Roorkee - India

Rahul, A. & Ahuja, R. (2014). Analysing sustainability issues related to various construction techniques practised in Himalayas. *International Journal of Research*, 1(5),

Sood, A., Rahul, A., Singh, Y., & Lang, D. H. (2013). World Housing Encyclopedia Housing Report #171: Dry stone construction in Himachal Pradesh.

Rahul, A., Sood, A., Singh, Y., & Lang, D. (2013). World Housing Encyclopedia Housing Report #170: Thathara houses in Himachal Pradesh.

Sood, A., Rahul, A., Singh, Y., & Lang, D. H. (2012). World Housing Encyclopedia Housing Report #169: Mud wall construction in Spiti Valley (Himachal Pradesh).

## CONFERENCES AND WORKSHOPS

### TECHNICAL

September'21	<b>Nature-Based Solutions &amp; Climate-Sensitive Urban Design training school</b> Organized by University of Novi Sad, Serbia
June'20	<b>8th International Conference On Cartography &amp; GIS</b> Organized by International Cartographic Association, Nessebar, Bulgaria
March'20	<b>Symposium On Challenges In Applied Human Biometeorology</b> Organized by Chair for Environmental Meteorology, University of Freiburg, Germany
Dec'19	<b>5th International Conference on Countermeasures to Urban Heat Islands</b> Organized by International Institute of Information Technology, Hyderabad, India
Nov'19	<b>8th APHW Conference on "Emerging Techniques in Urban Water Management"</b> Organized by Indian Institute of Technology Roorkee, India
June'19	<b>International Training Workshop for Natural Disaster Reduction</b> Organized by National Science and Technology Center for Disaster Reduction, Taiwan
August'18	<b>Bucharest Urban Climate Summer School</b> Organized by Arizona State University, USA and University of Bucharest, Romania
June'18	<b>GIAN course on "Urban Analytics: Evaluating and Measuring Sustainability of Cities"</b> Organized by Indian Institute of Technology Roorkee, India and NITI Aayog, India
October'17	<b>DWIH Symposium: WaterScapes</b> Organized by German House for Research and Innovation (DWIH, New Delhi) India
September'17	<b>Workshop on Research Paper Writing</b> Organized by Central Library, Indian Institute of Technology Roorkee - India
July'17	<b>Indo-German Smart Initiative Urban Lab Workshop</b> Organized by Technical University Berlin on behalf of Institute of Town Planners, India
June'16	<b>Indoor Air Quality of Buildings: Theory and Simulations</b> Organized by Department of Mechanical Engineering, National Institute of Technology Hamirpur - India
2010	<b>i CONUGA'10 international CONFERENCE on Urbanism and Green Architecture</b> Organized by National Institute of Technology Hamirpur, India
2009	<b>National workshop on sustainable development for the hill areas</b> Organized by National Institute of Technology Hamirpur, India

## PEDAGOGY

July'15

## How to Write Effective Test Items for Question Paper

Organized by Chitkara University Research &amp; Innovation Network (CURIN), Punjab, India

Jun'15

## Regional Faculty Induction Programme

Organized by National Institute of Advanced Studies in Architecture (NIASA), India

## PROJECTS

June'21 to current

## Translating urban spaces as strategic energy and water security measures

Department of Architecture &amp; Planning, Indian Institute of Technology Roorkee, India

Sponsored by Department of science and technology (DST), India

Student – assistant | Experiments, Data analysis and report making

August'17 to December'17

## Evaluation of the “Monolithic Construction with structural stay in place CR steel specially designed formwork system Housing Technology” w.r.t. Green and Sustainability Parameters

Department of Architecture &amp; Planning, Indian Institute of Technology Roorkee, India

Sponsored by BMTPC

Student – assistant | Data analysis and report making

November'12 to March'13

## Earthquake hazard and risk reduction in Indian sub-continent

Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India

Sponsored by National Disaster Management Authority

Student – assistant | Surveys, data collection and clustering

August'11 to August'12

## Seismic vulnerability assessment of building types in India

Centre for Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee, India

Sponsored by National Disaster Management Authority

Junior Research Fellow | Surveys, data collection and report making

## PERSONAL SKILLS

## Software Packages

Python, GIS, Envi-Met, R, ANSYS, GEE, Revit Architecture, Ecotect, Vasari, Autodesk Autocad, Google Sketchup, Adobe Photoshop, Ms office

## Mother tongue(s)

Hindi (*native*)

## Other language(s)

English (*Written and Spoken; fluent*)

## ADDITIONAL INFORMATION

## Honours and awards

- Travel Grant | IAUC
- MHRD fellowship | Ministry of Human Resource Development (MHRD) | Dec'16 to current
- GATE scholarship | MHRD | 2012 – 14 | [GATE' 2012 -All India Rank 06](#)

## Memberships

Council of Architecture - India | CA/ 2013/ 60101| since 2013

## REFERENCES

- 1 Prof. Mahua Mukherjee, PhD., Fulbright Fellow  
Professor, Department of Architecture & Planning  
Joint Faculty and Ex-Head, Centre of Excellence in Disaster Mitigation and Management  
IIT Roorkee, INDIA  
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