CURRICULUM VITAE OF **DR. PIR MOHAMMAD**

NAME & DESIGNATION

Pir Mohammad, PhD
Postdoctoral Fellow
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BROAD AREAS OF RESEARCH

Remote Sensing, GIS, Urban Climate, Urban heat island, Urban Growth Modelling

PROFESSIONAL BACKGROUND

Employer	Post Held	Period
The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong	**Postdoctoral Fellow** at Department of Land Surveying and Geo-informatics	**19.04.2022 - continue**
Indian Institute of Technology Roorkee, Uttrakhand, India	**MHRD JRF/SRF** at Department of Earth Sciences	**08.07.2016 – 22.11.2021** *(05 years, 04 months, 14 days)*

EDUCATIONAL QUALIFICATION

Education	Period
Indian Institute of Technology Roorkee, Uttrakhand, India **Degree: Doctor of Philosophy** **CGPA**: **9.14/10** (First class with Distinction) **Major**: Remote Sensing Thesis Title: **Urban Heat Island Study And Modelling Optimal Urbanization Pattern In Selected Indian Cities**	**07/2016 – 11/2021**
Indian Institute of Technology Roorkee, Uttrakhand, India **Degree: Master of Technology** **CGPA**: **8.97/10** (First class with Distinction) **Major**: Geological Technology • **Honors**: Merit-cum Scholarship Award (2013-2016)	**07/2013 – 06/2016**
Cotton College, **Gauhati University**, **Assam**, **India** **Degree: Bachelor of Science** **Percentage: 78.5%** (First class with Distinction) **Major**: Geology • **Honors**: Silver-Medalist of the University	**07/2010 – 06/2013**

AWARDS AND ACHIEVEMENTS

1. **Arundoram Borooah Award**, 2008, Government of Assam
2. **Interactive Meet** with NASA's Astronaut, 2009, Assam
3. Dr Pabindranath Datta **Memorial Silver Medal**, 2013, Gauhati University
4. Ranked **AIR-52** in IIT-JAM (Join Admission for Masters), 2013
5. Recipient of "**Chief Minister's Scheme** for Financial Assistance to Meritorious Student of Assam", 2013
6. Qualified GATE (Graduate Aptitude Test for Engineering) in 2016 (**AIR-251**), 2017 (**AIR-94**), 2018 (**AIR-543**), 2019 (**AIR-160**)
7. Qualified **CSIR-JRF** with rank **AIR-86** and **Lectureship (LS)** in June, 2019
8. Received the **Special Registration Support Program (SRSP)** for meritorious Indian researchers in 36th International Geological Congress, 2020

SELECTED PUBLICATIONS (Citations=259, h-index=8, i10-index=7)

https://scholar.google.com/citations?user=PDGy_1sAAAAJ&hl=en

1. **Mohammad, P.**; Goswami, A. **2022.** Exploring different indicators for quantifying surface urban heat and cool island together: A case study over two metropolitan cities of India. ***Environment, Development and Sustainability***. https://doi.org/10.1007/s10668-022-02509-x

2. Karimi, A.; **Mohammad, P**. **2022**. Effect of outdoor thermal comfort condition on visit of tourists in historical urban plazas of Sevilla and Madrid. ***Environmental Science and Pollution Research,*** *29(40),* pp. 60641–60661. https://doi.org/10.1007/s11356-022-20058-8
3. **Mohammad, P**.; Goswami, A.; Chauhan, S.; Nayak, S. **2022.** Machine Learning algorithm based prediction of land use land cover and land surface temperature changes to characterize the surface urban heat island phenomena over Ahmedabad city, India. ***Urban Climate*****,** *42*, 101116. https://doi.org/10.1016/j.uclim.2022.101116
4. **Mohammad, P**.; Goswami, A. **2022.** Spatial variation of surface urban heat island magnitude along the urban-rural gradient of four rapidly growing Indian cities. ***Geocarto International*****,** *37(5)*, pp. 4269–4291. https://doi.org/10.1080/10106049.2021.1886338
5. **Mohammad, P**.; Aghlmand, S.; Fadaei, A.; Gachkar, S.; Gachkar, D.; Karimi, A. **2021.** Evaluating the role of the albedo of material and vegetation scenarios along the urban street canyon for improving pedestrian thermal comfort outdoors. ***Urban Climate*****,** *40*, 100993. https://doi.org/10.1016/j.uclim.2021.100993
6. **Mohammad, P**.; Goswami, A. **2021.** Quantifying diurnal and seasonal variation of surface urban heat island intensity and its associated determinants across different climate zones over Indian cities. ***GIScience & Remote Sensing***, *58(7)*, pp. 955-981. https://doi.org/10.1080/15481603.2021.1940739
7. **Mohammad, P**.; Goswami, A. **2021.** A Spatio-Temporal Assessment and Prediction of Surface Urban Heat Island Intensity Using Multiple Linear Regression Techniques Over Ahmedabad City, Gujarat. ***Journal of the Indian Society of Remote Sensing***, *49(5)*, pp. 1091-1108. https://doi.org/10.1007/s12524-020-01299-x
8. Gohain, K.J.; **Mohammad, P**. ; Goswami, A. **2021.** Assessing the impact of land use land cover changes on land surface temperature over Pune city, India. ***Quaternary International***, *575-576*, pp. 259-269. https://doi.org/10.1016/j.quaint.2020.04.052
9. Malik, S.; Pal, S.C.; Sattar, A.; Singh, S.K.; Das, B.; Chakrabortty, R.; **Mohammad, P**. **2020.** Trend of extreme rainfall events using suitable Global Circulation Model to combat the water logging condition in Kolkata Metropolitan Area. ***Urban Climate***, *32*, 100599. https://doi.org/10.1016/j.uclim.2020.100599
10. **Mohammad, P**.; Goswami, A.; Bonafoni, S. **2019**. The Impact of the Land Cover Dynamics on Surface Urban Heat Island Variations in Semi-Arid Cities : A Case Study in Ahmedabad City, India, Using Multi-Sensor/Source Data. ***Sensors (Switzerland)****, 19(17)*, 3701. https://doi.org/10.3390/s19173701

PEER REVIEW SUMMARY (Total=75)

1. Scientific Report
2. Remote Sensing of Environment
3. Sustainable Cities and Society
4. Urban Climate
5. GIScience & Remote Sensing
6. European Journal of Remote Sensing
7. Geocarto International
8. Geomatics, Natural Hazards and Risk
9. Geology, Ecology, and Landscapes
10. Advances in Building Energy Research
11. Environmental Science and Pollution Research
12. Theoretical and Applied Climatology
13. Environment, Development and Sustainability
14. Journal of Forestry Research
15. Energy Efficiency
16. Journal of the Geological Society of India
17. Remote Sensing
18. Atmosphere
19. Sustainability
20. International Journal of Environmental Research and Public Health
21. Frontiers in Ecology And Evolution
22. Frontiers in Environmental Science
23. Frontiers in Sustainable Food Systems
24. Frontiers in Remote Sensing

TECHNICAL SKILLS

Programming Skills: Python, MATLAB
Simulations and Software: Microsoft Office (Words, Excel, PowerPoint), Arc GIS, ERDAS IMAGINE, Q GIS, SAGA GIS, ENVI, Global Mapper, CorelDraw X7, Origin.

MEMBER – PROFESSIONAL BODY

1. Indian Society of Remote Sensing (ISRS), Dehradun, Life Member, **L-5002**
2. Indian Society of Geomatics (ISG), Ahmedabad, Life Member, **ISG-L-2238**
3. Indian Science Congress Association (ISCA), Kolkata, Life Member, **L-39591**