Pratiman Patel, Ph.D.

🌐 https://pratiman-91.github.io/   ⊙ https://github.com/pratiman-91/

Employment History

Jan 2024 – Present   ◇ **Research Scientist,** Numerical Weather Prediction Branch, Department of Weather Research, Centre for Climate Research Singapore, Singapore

Dec 2021 – Jan 2024   ◇ **Postdoctoral Fellow,** Department of Geography, Faculty of Arts and Social Sciences, National University of Singapore, Singapore

Education

Jul 2015 – Feb 2021   ◇ **Ph.D.,** Interdisciplinary Programme in Climate Studies, Indian Institute of Technology Bombay, India.

Jul 2013 – Jun 2015   ◇ **Master of Technology,** in Remote Sensing & GIS (Water Resources), Indian Institute of Remote Sensing, Dehradun, India

Jul 2009 – Jun 2013   ◇ **Bachelor of Technology,** in Agricultural Engineering, College of Agricultural Engineering, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, India

Research Publications

Journal Articles [Selected]

1 **P. Patel** *et al.*, "Modeling Large-Scale Heatwave by Incorporating Enhanced Urban Representation," *Journal of Geophysical Research: Atmospheres*, vol. 127, no. 2, e2021JD035316, 2022.

2 **P. Patel** *et al.*, "Revisiting 2013 Uttarakhand flash floods through hydrological evaluation of precipitation data sources and morphometric prioritization," *Geomatics, Natural Hazards and Risk*, vol. 13, no. 1, pp. 646–666, 2022.

3 **P. Patel**, S. Karmakar, S. Ghosh, D. G. Aliaga, and D. Niyogi, "Impact of green roofs on heavy rainfall in tropical, coastal urban area," *Environmental Research Letters*, vol. 16, no. 7, p. 074 051, 2021.

4 **P. Patel**, S. Karmakar, S. Ghosh, and D. Niyogi, "Improved simulation of very heavy rainfall events by incorporating WUDAPT urban land use/land cover in WRF," *Urban Climate*, vol. 32, p. 100 616, 2020.

5 **P. Patel**, S. Ghosh, A. Kaginalkar, S. Islam, and S. Karmakar, "Performance evaluation of WRF for extreme flood forecasts in a coastal urban environment," *Atmospheric Research*, vol. 223, pp. 39–48, 2019.

Miscellaneous Experience

Awards and Achievements

2019   ◇ Overseas Visiting Doctoral Fellow (OVDF) at Purdue University, USA (2019-2020) by Department of Science & Technology, Government of India.

Professional contributions

◇ Journal Reviewer for Urban Climate [Impact Factor (2021): 6.66], Atmospheric Research [Impact Factor (2022): 6.4], Natural Hazards [Impact Factor (2022): 3.7], Environmental Research [Impact Factor (2022): 8.3], Earth's Future [Impact Factor (2022): 8.2], Environmental Science and Pollution Research [Impact Factor (2022): 6.18], and Journal of Applied Meteorology and Climatology [Impact Factor (2022): 3.0]

Miscellaneous Experience (continued)

- ◇ Member of UK Met Office urban working group
- ◇ Member of International Association for Urban Climate, Indian Society of Remote Sensing, American Geophysical Union, European Geosciences Union, IEEE Geoscience and Remote Sensing Society, and Associate Member of Institution of Engineers
- ◇ Externally supervised one Master's thesis
- ◇ Contributor in GitHub [proplot-dev/proplot]: A succinct matplotlib (Python plotting library) wrapper for making beautiful, publication-quality graphics.

◇ Member of UK Met Office urban working group