

Pratiman Patel | PhD Scholar
 Climate Studies | IIT Bombay
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ACADEMIC DETAILS

Examination	University	Year	CPI/%
Doctor of Philosophy	Indian Institute of Technology, Bombay, India	2020 (Expected)	-
Master of Technology: <i>Remote Sensing & GIS (Water Resources)</i>	Indian Institute of Remote Sensing, Dehradun, India	2015	8.00/10.0
Bachelor of Technology: <i>Agricultural Engineering</i>	College of Agricultural Engineering, Jabalpur, India	2013	8.10/10.0

TECHNICAL SKILLS

- **Languages:** Python, R, NCL
- **Models:** Weather Research & Forecasting (WRF) Model, HEC-HMS, HEC-RAS, MIKE11
- **Softwares:** ArcGIS, QGIS, ERDAS, ENVI
- **Extra:** High Performance Computing, Bash, L^AT_EX, MS Office

FELLOWSHIP

- Overseas Visiting Doctoral Fellow (OVDF) at Purdue University, USA (2019-2020)

RESEARCH PROJECTS

- **Rainfall Forecasting through Regional Weather Modelling: A Precursor to Near Real-Time Flood Forecasting** (Ph.D. Research Project)
(Supervisor: Prof. Subhankar Karmakar , Co-Supervisor: Prof. Subimal Ghosh , July'15 - till date)
- **Flood Simulation using Weather Forecasting and Hydrological Models** (M.Tech Research Project)
(Supervisor: Dr. Praveen K. Thakur , Co-Supervisor: Dr. S.P. Aggarwal , July'14 - July'15)
- **Selection of potential sites for water harvesting structure in Jabalpur district using Remote Sensing & GIS** (B.Tech Major Project)
(Supervisor: Dr. Bhaskar R. Nikam , Co-Supervisor: Dr. S.P. Aggarwal , January'13 - May'13)
- **Land use/ Land Cover change detection of Jabalpur block using Remote Sensing and GIS technique** (B.Tech Major Project)
(Supervisor: Dr. S.K. Sharma , July'12 - December'12)

PUBLICATIONS

- **Patel, P.**, Karmakar, S., Ghosh, S., and Niyogi, D. (2020). Improved Simulation of Very Heavy Rainfall Events by Incorporating WUDAPT Urban Land Use/ Land Cover in WRF. *Urban Climate*, 32, p.100616 (Q1)
- **Patel, P.**, Aliaga, D., Karmakar, S., Ghosh, S. and Niyogi, D. (2019, December). Green Roofs to mitigate the urban extreme precipitation events? An experimental study over Mumbai, India. In *AGU Fall Meeting 2019*, AGU, pp.GC21I-1370.
- **Patel, P.**, Ghosh, S., Kagainalkar, A., Islam, S., and Karmakar, S. (2019). Performance evaluation of WRF for extreme flood forecasts in a coastal urban environment. *Atmospheric Research* , 223, 39-48. (IF-4.1, Q1)

PROFESSIONAL MEMBERSHIPS

- ◦ American Geophysical Union ◦ IEEE Geoscience and Remote Sensing Society ◦ European Geosciences Union ◦ Associate Member of Institution of Engineers (A.M.I.E.)

REFERENCES

- Prof. Subhankar Karmakar, CESE, IIT Bombay, Powai, Mumbai-400076, India. E-mail : skarmakar@iitb.ac.in
- Prof. Subimal Ghosh, Civil Engineering, IIT Bombay, Powai, Mumbai-400076, India. E-mail : subimal@civil.iitb.ac.in
- Prof. Dev Niyogi, Department of Agronomy and Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, West Lafayette, Indiana-47907, USA. E-mail : dniyogi@purdue.edu