Pratiman Patel | PhD

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ACADEMIC DETAILS

Examination	University	Year	CPI/%
Doctor of Philosophy	Indian Institute of Technology,		
	Bombay, India	2021 (Feb)	-
Master of Technology:	Indian Institute of Remote Sensing,		
Remote Sensing & GIS (Water Resources)	Dehradun, India	2015	8.00/10.0
Bachelor of Technology:	College of Agricultural Engineering,		
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, LATEX, MS Office

FELLOWSHIP

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

RESEARCH PROJECTS

- **Urban Climate Modeling using uSINGV** (Postdoctoral Fellow, National University of Singapore) (Supervisor:Prof. Matthias Roth, December'21 Present)
- Rainfall Forecasting through Regional Weather Modelling: A Precursor to Near Real-Time Urban Flood Forecasting (Ph.D. Research Project)

(Supervisor: Prof. Subhankar Karmakar, Co-Supervisor: Prof. Subimal Ghosh, July'15 - February'21)

- 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., Aliaga, D., and Niyogi, D. (2021). Impact of green roofs on heavy rainfall In tropical, coastal urban area. *Environmental Research Letters*.
- 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
- Patel, P., Ghosh, S., Kaginalkar, 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.

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, Professor, Department of Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, USA. E-mail: dev.niyogi@jsg.utexas.edu