

Curriculum Vitae

# Jayesh Anand Phadtare

## Postdoctoral Research Associate

Environmental Fluid Mechanics Laboratory  
Department of Civil and Environmental Engineering and Earth Sciences  
University of Notre Dame, Indiana, USA.

**Mobile:** +1 574-344-8554  
**Email 1:** jphadtar@nd.edu  
**Email 2:** jayesh.phadtare@gmail.com

## Previous Positions

**Postdoctoral Researcher**, National Centre for Atmospheric Science, Uni. Leeds, Feb 2020 - Mar 2021.

**Project Scientist**, Indian Institute of Science, Bangalore, Oct 2019 - Jan 2020.

## Education

<b>PhD</b>	Indian Institute of Science (2020) (Thesis: Study of deep clouds over Indian region with satellite data and numerical model. Advisor: Prof. G. S. Bhat)
<b>M.Tech. Climate Science</b>	Indian Institute of Science (2012) (Thesis: Evaporation and drying in advection-condensation model. Advisor: Prof. Jai Sukhatme)
<b>B.E. Mechanical Engg.</b>	Sardar Patel College of Engineering, University of Mumbai. (2008)

## Publications

Peer-reviewed:

**Phadtare, J., and G.S. Bhat, 2019.** Characteristics of deep cloud systems under weak and strong synoptic forcing during Indian summer monsoon season, *Monthly Weather Review*, 147(10), pp.3741-3758. [Link]

**Phadtare, J., 2018.** Role of Eastern Ghats orography and cold pool in an extreme rainfall event over Chennai on 1 December 2015. *Monthly Weather Review*, 146(4), pp.943-965. [Link]

Other:

**Phadtare, J.** Propagation of cyclonic vortices and intense rainfall over Indian peninsula: Case studies from northeast monsoon season. [Link]

**Phadtare, J and co-authors** (submitted to QJRMS). Froude number-based Rainfall Regimes over the Western Ghats Mountains of India.

**Phadtare, J., and G.S. Bhat** (in preparation). Life cycle characteristics of deep cloud systems in Indian summer monsoon using high temporal resolution satellite data.

## Conference Presentations

Precipitation modes over the Western Ghats orography during the summer monsoon season. EGU General Assembly 2021

Impact of model resolution and convective parameterization on the Western Ghats rainfall regimes. 11th Conference on Transition of Research to Operations. AMS meeting 2021. / Abstract #381464.

Propagation of Mesoscale Convective Systems during Indian summer monsoon, American Geophysical Union Meeting 2015.

## Skills

**Programming languages:** Python, MATLAB, C, C++.

**Operating systems:** Windows, Linux.

**Atmospheric modeling:** WRF model (simulation and analysis), UK Met Office Unified Model (analysis)

**Data Handled:** Geostationary satellite IR, Radiosondes, Automatic Weather Station (AWS), IMERG precipitation, and reanalysis datasets.

## Fellowships and Awards

Augmenting Writing Skills for Articulating Research (AWSAR 2018) award by the Department of Science and Technology (DST), Govt. of India for popular science article.

Grantham Fellowship 2011-2017, Divecha Centre for Climate Change, Indian Institute of Science, Bangalore.