



## Education

- PhD - Department of Meteorology, University of Reading, UK 2018 - 2021 (*expected*)  
Supervisor: Dr Andrew Turner, Associate Professor in Monsoon Systems
- Master of Research in Climate and Atmospheric Science - University of Leeds, UK 2017  
Dissertation: *On the relationships between relative vorticity, propagation speed and rainfall of Indian monsoon low pressure systems*  
Supervisor: Prof. Douglas Parker, Joint Met Office Professor of Meteorology
- B.Sc (Physics, Statistics, Mathematics) - Institute of Science, Nagpur (India) 2015

## Research Interests

- Indian Monsoon (*seasonal predictions, ocean-atmosphere-land interaction, dynamics and understanding precipitation processes of monsoon depressions*)
- Dynamics of extra-tropical cyclones over North India
- Tropical Meteorology and variability of climate systems
- Effect of clouds and aerosols on earth's climate

## Internships and Work Experience

- White Gold Trust, India March 2015 - present  
- Voluntarily working as a principal meteorologist with a responsibility of providing weather advisories to over 100,000 farmers of Maharashtra state.
- Centre for Science and Environment, New Delhi June 2014  
Analysed India's weather forecasting system and sent a proposal on making India a 'Weather-Ready' nation to Hon'ble Prime Minister of India and Ministry of Earth Sciences.
- Down To Earth June 2014 - June 2016  
Independent Weather Forecaster  
- Experience of forecasting the monsoon and several weather events across India  
<http://www.downtoearth.org.in/author/akshay-deoras-2290>
- UM-DAE Centre for Excellence in Basic Sciences, Mumbai June 2013  
- Worked with India's first Citizen Science project in astronomy, RAD@home  
- Analysed data from TIFR GMRT Sky Survey, VLA FIRST and CRTS.
- Tarun Bharat Newspaper Jan 2012 - Oct 2017  
Independent Weather Forecaster  
- Experience of forecasting the weather across Vidarbha region of Maharashtra state and providing weather inputs to the people in vernacular language.

## Publications

- **Deoras, A.**, Parker, D., Hunt, K.M.R., Fletcher, J.. *On the relationships between relative vorticity, propagation speed and rainfall of Indian monsoon low pressure systems.* (in preparation)
- Basu, S., Bieniek, P.A. and **Deoras, A.**, 2017. *An investigation of reduced western disturbance activity over Northwest India in November-December 2015 compared to 2014-A case study.* **Asia-Pacific Journal of Atmospheric Sciences**, 53(1), pp.75-83.
- **Akshay Deoras.** *On Intriguing Relationship Between Monsoon Low Pressures and Maharashtra.* **Bulletin of the Indian Meteorological Society, Pune Chapter** (Vol.17, February 2016, pp. 42)
- Aditya Kranti, Salil Bhat, **Akshay Deoras.** *Trend Analysis and Mapping of Severe Cyclonic Storms in Bay of Bengal using ANN and Exponential Smoothing.* **International Journal of Engineering Development and Research (IJEDR)**, 237-242, 2015, ISSN:2321-9939

## Conferences

- Sustainable Perspectives on Future Challenges  
Poster and oral presentation: Connecting Indian Farmers - Present Challenges and Future Prospects 3 February 2017
- SHOWCASE 2016, 7<sup>th</sup> annual University of Leeds Postgraduate Research Conference  
Poster presented : Understanding the winter precipitation in Northwest India 5 December 2016
- Institute for Climate and Atmospheric Science Annual Science Meeting 2016  
Poster presented : An Investigation of Reduced Western Disturbance Activity over Northwest India in November-December 2015 3 November 2016
- Annual Monsoon Workshop - 2015 and National Symposium on Understanding and Forecasting the Monsoon Extremes  
Poster presented : On intriguing relationship between Monsoon low pressures and Maharashtra 23-24 February 2016
- Fifth National Research Conference on Climate Change  
Poster presented: Need of a paradigm shift in the cyclone mitigation policy due to an emerging cyclone frequency trend in the North Indian Ocean 19-20 December 2014
- 32nd Meeting of Astronomical Society of India  
Poster presented: Three highly unusual radio sources detected from the new TGSS & other archival data 20-22 March 2014
- National Conference on Statistics, Mathematics and their applications  
Paper presented: Preliminary statistical relations between earthquakes and eclipses 3-4 January 2014
- Astronomical Society of India's 3rd Professional-Amateur meeting in astronomy  
Poster presented: Unusual radio sources: Early result of my participation at Pro-Am student's collaboratory RAD@home 26-27 October 2013

## Atmospheric Science Fieldwork

- The Isle of Arran, United Kingdom 9-16 September 2016  
- Experience of conducting various experiments to study Earth's radiational balance, surface exchange processes; hill profiling, launching a radiosonde and pilot balloon, trajectory analysis and weather forecasting using various forecasting products.

## Invited talks (selected)

- The Great Indian Monsoon System  
Central India Research Institute, Nagpur May 2015
- The fun in weather forecasting  
Yashwantrao Chavan College of Engineering, Nagpur September 2014
- How to forecast the weather  
Central India Research Institute, Nagpur August 2014
- Problems with today's forecasting system in India  
Public lecture at SARATHI organisation, Nagpur August 2014
- An introduction to multi-wavelength astronomy  
Somalwar Nikalas High School. Nagpur March 2014
- Cosmic Magnifying Lens - An insight of gravitational lensing  
Visvesvaraya National Institute of Technology February 2013

- Cosmic Scales - An insight of how small/big we are in the Universe  
Public lecture for DST INSPIRE camp students in Nagpur November 2012
- Hide and Seek in the Universe ( *On Astronomical Transits, Occultations and Eclipses*) January 2012  
Talk for high school students at Somalwar Nikalas high school, Nagpur

### **Media appearances**

The Times of India, Hindustan Times, The Hitavada, Tarun Bharat, Lokmat, Indian Express Loksatta, The Hindu, India Today, Sakal, Maharashtra Times, DNA, Huffington Post, Down To Earth, Yahoo! News, Scroll, Village Square, India Climate Dialogue, Fountain Ink, The Hans India, Dainik Bhaskar (Rajasthan), Lokpatra Aurangabad, Goa Doot, Prabhat Pune, Desh Gujarat, Millennium Post, Catch News, Akila Daily (Gujarat)

### **Achievements (selected)**

- DST INSPIRE Scholarship (awarded by Department of Science and Technology, Government of India to pursue baccalaureate education in natural sciences) - 2012
- Youngest person to be invited to participate and present an action plan on improving Maharashtra's Agro-Weather Forecasting in a high level meeting chaired by the Chief Minister of Government of Maharashtra, India - May 2015
- Scholarship for securing highest marks in statistics in Summer 2013 university examination - 2014  
(Awarded by Alumni Association of Institute of Science, Nagpur)
- 'Star Prize' for best overall performance in school and junior college - 2011  
(Awarded by Somalwar Nikalas Junior College)
- Title of 'Professor (of) Maths' for outstanding performance in Prof. Maths contest organised by National Education Society - 2003
- First prize in district level debate competition organised by District Council, Nagpur on environmental issues - 2009
- Parents-Teachers-Students-Association: Student representative in middle and high school (sessions 2004-05, 2009-10)

### **Skills**

- Workable knowledge in Microsoft Windows, OS X, Linux; C++, MATLAB

### **Professional Memberships**

- Indian Meteorological Society, Pune chapter (Life member)
- Indian Climate Research Network

### **Other**

- Member, Advisory Body of Atal Tinkering Lab at Somalwar Nikalas School, Nagpur
- - Responsible for advising a leading school in Central India on Government of India's flagship program to "*foster curiosity, creativity and imagination in young minds; and inculcate skills such as design mindset, computational thinking, adaptive learning, physical computing etc.*". The intended beneficiaries include over 1500 high school students.