

# Devang Falor

https://df6106.github.io

Email: devang.falor@gmail.com

Mobile: +91-9660783116

## EDUCATION

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- **Indian Institute of Science** Bangalore, India  
*Doctor of Philosophy (Engineering)* August 2019 - Present  
*Centre for Atmospheric and Oceanic Sciences*
- **Birla Institute of Technology and Science, Pilani** Rajasthan, India  
*Bachelor of Engineering (Honours) - Chemical Engineering; CGPA 8.5* August 2014 - June 2018
- **All India Secondary School Certificate Examination (AISSCE)** Rajasthan, India  
*Class XII; 90%* March 2014

## RESEARCH EXPERIENCE

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- **Doctoral Student**  
*Centre for Atmospheric and Oceanic Sciences, IISc Bangalore* Aug 2019 - Present
  - **Supervisors:** Dr. Bishakhdatta Gayen (Primary) and Prof. Debasis Sengupta
- **Project Scientist 'B'**  
*International Centre for Theoretical Sciences (ICTS), Bangalore* Jun 2018 - Jul 2019
  - **Supervisor:** Prof. Rama Govindarajan
- **Undergraduate Thesis**  
*Department of Mechanical Engineering, University of California, Santa Barbara (UCSB)* Jul 2017 - Nov 2017
  - **Supervisor:** Prof. Eckart Meiburg
- **Summer Research Intern**  
*Bharat Heavy Electricals Limited (BHEL), Coal Research Centre, Tiruchirapalli* May 2016 - Jul 2016

## CONFERENCES/WORKSHOPS ATTENDED

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- **IX International Symposium on Stratified Flows, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, 2022**  
Talk Title: **Convection enhanced mixing in the upper ocean during a tropical cyclone**
- **Waves, Instabilities and Mixing in Rotating and Stratified Flows, International Centre for Theoretical Sciences, Bangalore 2022**
- **Ocean Sciences Meeting (OSM) 2022**  
Talk Title: **Role of convection in driving enhanced upper-ocean mixing in response towards a tropical cyclone**
- **Japan Geoscience Union Meeting (JpGU) 2021**  
Talk Title: **Convection enhances upper-ocean mixing during a tropical cyclone**
- **Australian Meteorological and Oceanographic Society (AMOS), Science for Impact 2021**  
Talk Title: **Role of convection and turbulence in the upper ocean mixing during a tropical cyclone**
- **Ocean Mixing and Monsoon (OMM) Meeting, Space Application Centre, ISRO, Ahmedabad, 2020**
- **Turbulence from Angstroms to Light years, International Centre for Theoretical Sciences, Bangalore 2018**

## PUBLICATIONS

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- **Falor D., Gayen B., Sengupta D., Ivey G. N.** Evaporation induced convection enhances mixing in the upper ocean  
*Frontiers in Marine Science, 10, 796*

## AWARDS AND ACHIEVEMENTS

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- **Outstanding Student Presentation Award (OSPA):** Japan Geoscience Union Meeting (JpGU) 2021.
- **Prime Minister's Research Fellowship:** August 2021
- **Grantham Fellowship:** Centre for Atmospheric and Oceanic Sciences
- **All India Rank (AIR) 15:** Graduate Aptitude Test in Engineering (GATE) 2019
- **Vice Chairperson:** Indian Institute of Chemical Engineers, Pilani Student Chapter

## SKILLS

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- Fortran (77/90), C, C++, Message Passing Interface (MPI), L<sup>A</sup>T<sub>E</sub>X, MATLAB, Python, OpenFOAM, ANSYS, ParaView

## OUTREACH ACTIVITIES

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- Delivered a webinar on **Cyclones: Predicting Turbulence** (LINK) on *Researcher on Web* platform, 2020.