



SYED MUBASHSHIR ALI

PhD Student,

Oeschger Center for Climate Change Research, Universität Bern

Email: mubashshir.ali@giub.unibe.ch

Year	Degree/Certificate	Institute
2016-2018	MSc in Environmental Physics (4 th Semester)	Universität Bremen
2010-2015	BSc (Hon.) + MSc in Exploration Geophysics	IIT Kharagpur
2009	Senior Secondary School Exam	Campion School, Bhopal (India)
2007	Senior School Exam	Campion School, Bhopal (India)

Internships and Projects

PhD Thesis, University of Bern October 2018 - current

- Project Title: Temporal clustering of Recurrent Rossby Wave Packets (RRWPs) and their link with extreme cold and warm spells.

Alfred Wegener Institute (AWI), Bremerhaven 2017 - 18

- August - October 2017: Internship in Climate Dynamics group at AWI during
- November 2017 - September 2018: Master's Thesis Titled *Lagrangian Observations of Arctic Air mass formation during SHEBA*. Studying the formation of Arctic air mass for the clear and cloudy boundary state by using a Lagrangian model to calculate air mass trajectories.

Laboratory for Modelling and Observation of the Earth System (LAMOS) March 2017

- Developed a function routine using Python for fast visualization of NETCDF model output generated by the WRF-Chem model.

MSc Thesis (Geophysics): Assessment of Rajpardi Shale Rocks August-April 2014-15

- Interpreted the Rock-Eval Pyrolysis data to study the quantity, quality and thermal maturity of the organic shales.
- Proposed on developing a closed loop system by developing on cost-effective electro dialysis and membrane distillation for the desalination of seawater and fracking water.

Oil and Natural Gas Corporation Limited, GEOPIC, Dehradun May-June 2014

- Applied Seismic Data Interpretation Work Flow in a one-month internship.
- Underwent a training in Seismic Data Processing.

Technical Skills

Operating System: Linux, Windows.

Programming Languages: C, C++, Python, Shell scripting.

Awards/Scholastic Achievements

- Bestowed with **Institute Blue** which is the highest accolade for extraordinary contribution to Sports and Games on graduating from IIT Kharagpur in 2015.
- Recipient of the **Scholarship for Higher Education** (2010-15) by the government of India under the INSPIRE Program.
- Among **top 1%** of the students in the country (India) in the **Indian Institute of Technology-Joint Entrance Exam (IIT-JEE)**, 2010.
- Achieved **99.9 percentile** in the All India Engineering Entrance Examination 2010.
- Awarded with P.M. Joseph Memorial Shield for the **Best School Leaving All-Rounder** (2008-09).

Languages

- English (written and verbal fluency), Hindi (Native), German (A1).

Conferences/Workshops

- *Are Recurrent Rossby Wave Packets (RRWPs) relevant in the Southern Hemisphere?* – Talk at the Cyclone Workshop 2019 Seeon, Germany.
- Participated in the *18th Young Researchers Meeting, 2019* on “Scientific Excellence for Climate Sciences.”
- *Python for Scientists* – gave a talk at the Geography Institute, University of Bern to showcase the use of Python for more efficient scientific workflow and to facilitate open and reproducible science.
- *Exploring Air Mass Origin in the Arctic for Clear and Cloudy Boundary Layers*: Poster Presentation at the POLAR 2018 conference in Davos.