**Ali Hasan Siddiqui**
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## Education

- Department of Earth and Planetary Sciences
  Johns Hopkins University, Baltimore, MD
  **PhD** Candidate - *Physical Oceanography* Aug 2018 - present
  Advisor : **Prof. Thomas W.N Haine**

- Center for Atmospheric and Oceanic Sciences
  Indian Institute of Science (IISc), Bangalore, India
  **M.Tech** - *Climate Science* 2018
  Advisor : **Prof. J. Srinivasan**
  **CGPA : 8.8/10** (**Distinction**, Class rank 1)

- Department of Civil Engineering
  National Institute of Technology (NIT), Bhopal, India
  **B.Tech** - *Civil Engineering* 2015
  **CGPA : 8.21/10**, Top 10% of class

## Honors & Awards

- **Dean's Teaching Fellowship** 2023
  Johns Hopkins University.
- **Graduate Fellow** (Declined) Johns Hopkins Center for Medical Humanities and Social Medicine 2023
  Johns Hopkins University.
- **Science Communication Fellow** 2022
  Johns Hopkins University.
- **E&PS Department fellowship** 2018
  Department of Earth and Planetary Sciences, Johns Hopkins University.
- **Departmental Gold medal** (*for academic excellence*) 2018
  Center for Atmospheric and Oceanic Sciences, IISc, Bangalore.
- **Grantham Fellowship** (*for academic excellence*) 2017
  Divecha Center for Climate Change, IISC Bangalore.
- **Graduate fellowship** (*for academic excellence*) 2016, 2017
  Awarded by the Ministry of Human Resource and Development, India.
- **Outstanding student Award** 2015
  Outgoing class of Civil Engineering, NIT Bhopal.

## Publications

- Thomas W. N. Haine, **Ali H. Siddiqui**, and Wenrui Jiang (2023). "**Arctic freshwater impact on the Atlantic Meridional Overturning Circulation: Status and prospects**". *Accepted in Philosophical Transactions of the Royal Society*
- **Ali H. Siddiqui**, Thomas W. N. Haine, An T. Nguyen, Martha Buckley. "**Controls on upper ocean salinity variability in the eastern subpolar North Atlantic during 1992–2017**". *Submitted to JGR Oceans.*

- Wilbert Weijer, Thomas WN Haine, **Ali H Siddiqui**, Wei Cheng, Milena Veneziani, Prajvala Kurtakoti (2022). "**Interactions between the Arctic Mediterranean and the Atlantic Meridional Overturning Circulation: A Review**". *Oceanography*, 35(3/4), 118–127. https://www.jstor.org/stable/27182704.
- Thomas Haine, Renske Gelderloos, Miguel Jimenez-Urias, **Ali Siddiqui**, Gerard Lemson, Dmitry Medvedev, Alex Szalay, Ryan Abernathey, Mattia Almansi, Christopher Hill (2021). "**Computational Oceanography is Coming of Age**". *Bulletin of the American Meteorological Society*, doi: https://doi.org/10.1175/BAMS-D-20-0258.1.
- Almansi, M., R. Gelderloos, T. W. N. Haine, A. Saberi, and **A. H. Siddiqui** (2019). "**OceanSpy: A Python package to facilitate ocean model data analysis and visualization**" *Journal of Open Source Software*, 4(39), 1506
doi: https://doi.org/10.21105/joss.01506.

## Teaching Experience

- **Course Instructor** Fall 2023
History of Climate Science
Undergraduate course, designed and taught as part of the Dean's Teaching Fellowship
Johns Hopkins University
- Teaching Assistant Spring 2022
Guided tour of the planets (Undergraduate course), Johns Hopkins University
Instructor : Prof. David Sing and Prof. Ben Zaitchik
- Teaching Assistant Spring 2020
Oceans and Atmospheres (Undergraduate course), Johns Hopkins University
Instructor : Prof. Darryn Waugh
- Teaching Assistant Fall 2020
Introduction to Global Environmental Change (Undergraduate course), Johns Hopkins University
Instructor : Prof. Anand Gnanadesikan and Prof. Ben Zaitchik

## Talks and Posters

- *Characterizing Low Frequency Salinity Variability in the Subpolar North Atlantic.*
Poster, Summer Student Research Poster Symposium, NCAR, Boulder CO August 2023
- *Inter-Basin exchanges set salinity anomalies in the eastern subpolar North Atlantic.*
Poster, Arctic Processes in CMIP6 Bootcamp October 2022
- *Role of AMOC In Setting Salinity Anomalies In The Eastern Subpolar North Atlantic using Ocean State Estimates.*
Poster, US AMOC Science Meeting, Woods Hole, MA April 2022
- *Inter-Basin exchanges set salinity anomalies in the eastern subpolar North Atlantic.*
Ocean Sciences, virtual Feb 2022
- *Inter-Basin exchanges set salinity anomalies in the eastern subpolar North Atlantic.*
UMD Oceans brown bag seminar Dec 2021
- *A Model for Decadal Climate Variability in the North Atlantic.*
Poster, 27th IUGG General Assembly, Montreal July 2019
- *Introduction to ENSO.*
Talk, Monsoon cafe Seminar
Center for Atmospheric and Oceanic Sciences, IISc Bangalore, September 2017
- *Atmospheric Energy budget over Antarctica using Reanalysis.*
Summer School on Antarctic Climate Variability and Ice Dynamics
National Centre for Polar and Ocean Research (NCAOR), Goa May 2017

**Additional Training**

- *Arctic Processes in CMIP6 Bootcamp*
  CLIVAR CLIVAR/CliC Northern Oceans Region Panel, Søminestationen, Denmark 11-21 October 2022
- Summer School on *Bouyancy Driven Flows*
  International Center for Theoretical Sciences (ICTS), Bangalore June 2017

**Field Experience**

US GO-SHIP A22 transect RV Thomas G. Thompson
LADCP & CTD deployment and Operations April 18 - May 17, 2021
Chief Scientist : Dr. Viviane Menezes

**Outreach and Service**

- Expert Reviewer for IPCC report, Working Group I, 2021
- Reviewer, NASA TOPS Open Science Training Module, 2023.
- Graduate Representative Organizer, JHU 2022-2023
  *Co-Chair*
- Atmospheres and Oceans seminar series, Department of Earth and Planetary Sciences, JHU 2020–2022
  *Coordinator*
- Project Bridge, Science outreach in the local Baltimore community. 2019
  *Volunteer*