

# Ali Hasan Siddiqui

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## CONTACT INFORMATION

Olin Hall 326  
Department of Earth and Planetary Sciences  
Johns Hopkins University  
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## RESEARCH INTERESTS

Climate variability in the north Atlantic and Arctic ocean. AMOC-Arctic interactions and influence of Arctic freshwater on the global overturning circulation. History of climate science.

## EDUCATION

**Johns Hopkins University**, Baltimore, Maryland USA

Ph.D. Candidate

- Dissertation Topic: “Controls on Large Scale Freshwater Anomalies in the Subpolar North Atlantic.” *Advisor*: Thomas W.N. Haine

**Indian Institute of Science**, Bengaluru, Karnataka India

M.Tech., Climate Sciences, 2018

- Thesis: “Climate Variability in the Antarctic.” *Advisor*: J. Srinivisan

**National Institute of Technology**, Bhopal, Madhya Pradesh India

B.Tech. Civil Engineering, 2015

## PUBLICATIONS

**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”. *JGR Oceans*, [\[paper\]](#).

Thomas W. N. Haine, **Ali H. Siddiqui**, and Wenrui Jiang (2023). “Arctic freshwater impact on the Atlantic Meridional Overturning Circulation: Status and prospects”. *Philosophical Transactions of the Royal Society A*, 381(2262), 20220185, [\[paper\]](#).

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, [\[paper\]](#).

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*, [\[paper\]](#).

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, [\[paper\]](#).

## PAPERS IN PREPARATION

**Ali H. Siddiqui**, Thomas W. N. Haine, Anand Gnanadesikan, Who M. Kim, Gokhan Danabasoglu, Dan Amrhein. “Natural Variability of Upper Ocean salinity in the Subpolar North Atlantic” (*In prep for Journal of Climate*).

**Ali H. Siddiqui**, Thomas W.N. Haine. “Emerging signals of anthropogenic change in the subpolar north Atlantic” (*In prep for GRL*).

HONORS AND AWARDS	JHU Dean’s Teaching Fellowship, Fall 2023	
	NCAR Advanced Study Program’s Graduate Student (GVP) Fellowship, Summer 2023	
	Graduate Fellow (Declined) JHU Center for Medical Humanities and Social Medicine, 2023	
	Science Communication Fellow, JHU Professional Development and Career Office, 2022	
	Department Fellowship, Earth and Planetary Sciences, JHU, 2018–2019	
	Grantham Fellowship, Divecha Center for Climate Change, IISC Bangalore, 2017–2018	
	Outstanding student award, Outgoing class of Civil Engineering, NIT Bhopal, 2015	
PRESENTATIONS	Ocean Sciences, New Orleans, Poster	February 2024
	Summer Student Research Poster Symposium, NCAR, Boulder CO, Poster	August 2023
	Arctic Processes in CMIP6 Bootcamp, Poster	October 2022
	US AMOC Science Meeting, Woods Hole, MA, Poster	April 2022
	Ocean Sciences, virtual, Poster	Feb 2022
	Ocean Sciences, virtual, Town Hall tutorial	Feb 2022
	UMD Oceans brown bag seminar (Invited Talk)	Dec 2021
	27th IUGG General Assembly, Montreal, Poster	July 2019
	Center for Atmospheric and Oceanic Sciences, IISc Bangalore, Talk	September 2017
	Summer School on Antarctic Climate Variability and Ice Dynamics National Centre for Polar and Ocean Research (NCAOR), Goa, Poster	May 2017
TEACHING EXPERIENCE	<b>Instructor</b>	Fall 2023
	Proposed, designed and taught an undergraduate seminar course as part of the Dean’s Teaching Fellowship at Johns Hopkins on the <i>History of Climate Science</i> . The course charts the evolution of the field of climate science over the last 250 years. [ <a href="#">Syllabus</a> ][ <a href="#">Course Feedback</a> ]	
	<b>Teaching Assistant</b>	Spring 2022, 2023
	<i>Guided tour of the planets</i>	
	Undergraduate course, Johns Hopkins University. [ <a href="#">TA feedback</a> ]	
	<b>Teaching Assistant</b>	Fall 2020
	<i>Introduction to Global Environmental Change</i>	
	Undergraduate course, Johns Hopkins University	
ADDITIONAL TRAINING	<b>Teaching Assistant</b>	Spring 2020
	<i>Oceans and Atmospheres</i>	
	Undergraduate course, Johns Hopkins University. [ <a href="#">TA feedback</a> ]	
	Teaching Academy, Certificate of Completion	2024
	Center for Teaching Excellence and Innovation, JHU	
	<i>Arctic Processes in CMIP6 Bootcamp</i>	11-21 October 2022
	CLIVAR/CliC Northern Oceans Region Panel, Søminestationen, Denmark	
	Summer School on <i>Bouyancy Driven Flows</i>	June 2017
	International Center for Theoretical Sciences (ICTS), Bangalore	

FIELD EXPERIENCE	US GO-SHIP A22 transect LADCP & CTD deployment and Operations Chief Scientist : Dr. Viviane Menezes	RV Thomas G. Thompson April 18 - May 17, 2021
ACADEMIC AND UNIVERSITY SERVICE	Graduate Representative Organization, <i>Co-Chair</i> , <i>EPS Rep</i> , JHU Johns Hopkins Cross-Institutional Student Advisory Committee, <i>Graduate Rep</i> , Unlearning Racism in Geoscience (URGE), EPS, JHU <i>Pod member</i> , Teachers and Researchers United - UE, Graduate worker union, <i>Organizer</i> , JHU Expert Reviewer for IPCC report, Working Group I, <i>Coordinator</i> . Atmospheres and Oceans seminars, Earth and Planetary Sciences, JHU Project Bridge, <i>Volunteer</i> JHU	2023 2023 2023 2022-present 2021 2020-2022 2019