

Mattia Almansi

PHYSICAL OCEANOGRAPHER

National Oceanography Centre

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Employment

National Oceanography Centre

OCEAN MODELLER

Southampton, UK

April 2020 –

Johns Hopkins University

RESEARCH ASSISTANT

Baltimore, USA

September 2015 – March 2020

Academic Education

Johns Hopkins University

PH.D. IN PHYSICAL OCEANOGRAPHY

Baltimore, USA

2015 – 2020

- Thesis title: Denmark Strait Ocean Circulation Variability
- Advisor: Prof. Thomas W. N. HAINE
- Conferral Date: May 21, 2020

Johns Hopkins University

M.A. IN EARTH AND PLANETARY SCIENCES

Baltimore, USA

2016

- Committee: Profs. T. W. N. HAINE, A. GNANADESIKAN, D. W. WAUGH

University of Genoa

M.SC. IN MARINE SCIENCES

Genoa, Italy

2014

- Thesis title: Dynamics and Dispersion Around a Rectangular Headland
- Advisor: Dr. Marcello G. MAGALDI
- Grade: 110/110 cum laude

University of Genoa

B.SC. IN ENVIRONMENTAL SCIENCES

Genoa, Italy

2012

Specialized Education

2019	Teaching Academy , Johns Hopkins University	Baltimore, USA
2019	Big Data Visualization Hackathon , IDIES	Baltimore, USA
2016, 2017	FAMOS School , FAMOS	Woods Hole, USA
2016	FDSE Summer School , University of Cambridge & École Polytechnique	Cambridge, UK
2012	ERASMUS Exchange Program , University of Cádiz	Cádiz, Spain

Teaching Experience

2019	Introductory Oceanography , Apprentice Teacher	Johns Hopkins University
2018	Planning the Power System of the Future , Invited Speaker	Johns Hopkins University
2017	Oceans and Atmospheres , Teaching Assistant	Johns Hopkins University
2017	Climate Change: Science and Policy , Teaching Assistant	Johns Hopkins University

Field Experience

2018	Iceland-Greenland Seas Project (IGP) , Iceland-Greenland Seas	Alliance NATO Research Vessel
2014	ICHNUSSA , Western Mediterranean	Urania Research Vessel

Honors & Awards

2020	PODS Travel Support , NSF-ONR
2018	George S. Benton Graduate Student Award , Johns Hopkins University
2017	FAMOS Travel Support , FAMOS
2017	ASOF-ISSG Travel Support , WRCP - CliC
2015 – 2020	E&PS Fellowship , Johns Hopkins University
2014	Master's Thesis Award ("Dignità di Stampa") , University of Genoa
2011	ERASMUS Scholarship , European Commission

Publications

Peer-reviewed

- 8 LATERAL REDISTRIBUTION OF HEAT AND SALT IN THE NORDIC SEAS 2021
*Spall, Michael A. and **Almansi**, Mattia and Huang, Jie and Haine, Thomas W. N. and Pickart, Robert S* Prog. Oceanogr.
<https://doi.org/10.1016/j.pcean.2021.102609>
- 7 COASTAL TRAPPED WAVES AND OTHER SUBINERTIAL VARIABILITY ALONG THE SOUTHEAST GREENLAND COAST IN A
 REALISTIC NUMERICAL SIMULATION 2021
*Gelderloos, Renske and Haine, Thomas W. N. and **Almansi**, Mattia* J. Phys. Oceanogr.
<https://doi.org/10.1175/JPO-D-20-0239.1>
- 6 EVOLUTION OF DENMARK STRAIT OVERFLOW CYCLONES AND THEIR RELATIONSHIP TO OVERFLOW SURGES 2020
Almansi, Mattia and Haine, Thomas W. N. and Gelderloos, Renske and Pickart, Robert S. Geophys. Res. Lett.
<https://doi.org/10.1029/2019GL086759>
- 5 OCEANSPY: A PYTHON PACKAGE TO FACILITATE OCEAN MODEL DATA ANALYSIS AND VISUALIZATION 2019
Almansi, Mattia and Gelderloos, Renske and Haine, Thomas W. N. and Saberi, Atousa and Siddiqui, Ali H. J. Open Source Software
<https://doi.org/10.21105/joss.01506>
- 4 THE ICELAND GREENLAND SEAS PROJECT 2019
*Renfrew, I. A. and Pickart, R. S. and Våge, K. and Moore, G. W. K. and Bracegirdle, T. J. and Elvidge, A. D. and Jeansson, E. and Lachlan-Cope, T. and McRaven, L.T. and Papritz, L. and Reuder, J. and Sodemann, H. and Terpstra, A. and Waterman, S. and Valdimarsson, H. and Weiss, A. and **Almansi**, M. and Bahr, F. and Brakstad, A. and Barrell, C. and Brooke, J. K. and Brooks, B.J. and Brooks, I. M. and Brooks, M. E. and Bruvik, E. M. and Duschka, C. and Fer, I. and Golid, H. M. and Hallerstig, M. and Hessevik, I. and Huang, J. and Houghton, L. and Jónsson, S. and Jonassen, M. and Jackson, K. and Kvalsund, K. and Kolstad, E. W. and Konstali, K. and Kristiansen, J. and Ladkin, R. and Lin, P. and Macrander, A. and Mitchell, A. and Olafsson, H. and Pacini, A. and Payne, C. and Palmason, B. and Pérez-Hernández, M. D. and Peterson, A. K. and Petersen, G. N. and Pisareva, M. N. and Pope, J. O. and Seidl, A. and Semper, S. and Sergeev, D. and Skjelsvik, S. and Søiland, H. and Smith, D. and Spall, M. A. and Spengler, T. and Touzeau, A. and Tupper, G. and Weng, Y. and Williams, K. D. and Yang, X. and Zhou, S.* Bull. Amer. Meteor. Soc.
<https://doi.org/10.1175/BAMS-D-18-0217.1>
- 3 ATLANTIC-ORIGIN OVERFLOW WATER IN THE EAST GREENLAND CURRENT 2019
*Håvik, Lisbeth and **Almansi**, Mattia and Våge, Kjetil and Haine, Thomas W. N.* J. Phys. Oceanogr.
<https://doi.org/10.1175/JPO-D-18-0216.1>
- 2 FRONTOGENESIS AND VARIABILITY IN DENMARK STRAIT AND ITS INFLUENCE ON OVERFLOW WATER 2019
*Spall, Michael A. and Pickart, Robert S. and Lin, Peigen and Appen, Wilken-Jon von and Mastropole, Dana and Valdimarsson, H. and Haine, Thomas W. N. and **Almansi**, Mattia* J. Phys. Oceanogr.
<https://doi.org/10.1175/JPO-D-19-0053.1>
- 1 HIGH-FREQUENCY VARIABILITY IN THE CIRCULATION AND HYDROGRAPHY OF THE DENMARK STRAIT OVERFLOW
 FROM A HIGH-RESOLUTION NUMERICAL MODEL 2017
Almansi, Mattia and Haine, Thomas W. N. and Pickart, Robert S. and Magaldi, Marcello G. and Gelderloos, Renske and Mastropole, Dana J. Phys. Oceanogr.
<https://doi.org/10.1175/JPO-D-17-0129.1>

PhD Thesis

DENMARK STRAIT OCEAN CIRCULATION VARIABILITY	2020
Almansi , M.	Johns Hopkins University

Master's Thesis

Presentations

Invited Talks

2019	ESIP , Interoperability and Technology - Tech Dive Webinar Series	<i>Virtual</i>
2018	CMCC , Ocean Modelling and Data Assimilation Division	<i>Bologna, Italy</i>
2017	TRR 181 , Institute of Oceanography, University of Hamburg	<i>Hamburg, Germany</i>
2015	CNR-ISMAR , sez. La Spezia	<i>S.S. di Lerici, Italy</i>

Conferences

2021	EarthCube Annual Meeting	<i>Virtual</i>
2021	EGU General Assembly	<i>Virtual</i>
2021	DRAKKAR Annual Meeting	<i>Virtual</i>
2020	COAsT Workshop	<i>Virtual</i>
2020	Challenger Society for Marine Science Ocean Modelling Group Meeting	<i>Virtual</i>
2020	Ocean Sciences Meeting	<i>San Diego, USA</i>
2019	Pangeo Community Meeting	<i>Seattle, USA</i>
2019	ASOF-ISSG Meeting and Workshop	<i>Copenhagen, Denmark</i>
2019	EGU General Assembly	<i>Vienna, Austria</i>
2018	IDIES Annual Symposium	<i>Baltimore, USA</i>
2018	E&PS 50th Anniversary Symposium	<i>Baltimore, USA</i>
2018	ASOF-ISSG Meeting and Workshop	<i>Paris, France</i>
2018	Ocean Sciences Meeting	<i>Portland, USA</i>
2017	Irminger Sea Regional Science Workshop	<i>Southampton, UK</i>
2017	FAMOS Workshop	<i>Woods Hole, USA</i>
2017	IDIES Annual Symposium	<i>Baltimore, USA</i>
2017	US AMOC Science Team Meeting	<i>Santa Fe, USA</i>
2017	ASOF-ISSG Meeting and Workshop	<i>Sopot, Poland</i>
2016	FAMOS Workshop	<i>Woods Hole, USA</i>