

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

## Teaching Experience

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

## Field Experience

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

## Honors & Awards

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

## Publications

### Peer-reviewed

- 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 Duscha, C. and Fer, I. and Golid, H. M. and Hallerstig, M. and Hessevick, 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
<b>Almansi</b> , M.	<i>Johns Hopkins University</i>

### Master's Thesis

DYNAMICS AND DISPERSION AROUND A RECTANGULAR HEADLAND	2014
<b>Almansi</b> , M.	<i>University of Genoa</i>

## Presentations

## Invited Talks

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

## Conferences

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