



# Giusy Fedele

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via Thomas Alva Edison s.n.c., 81100, Caserta, Italy

## ● WORK EXPERIENCE

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09/2019 – 02/2020

**SCIENTIFIC COLLABORATOR** – CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI - CMCC FOUNDATION - ODA DIVISION

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Bologna, Italy

01/03/2020 – 28/02/2021 – Trieste, Italy

**RESEARCH FELLOW** – ISTITUTO NAZIONALE DI OCEANOGRAFIA E DI GEOFISICA SPERIMENTALE, OGS, MAOS DIVISION

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01/03/2021 – 30/09/2021 – Bologna, Italy

**POSTDOCTORAL RESEARCHER** – CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI - CMCC FOUNDATION - CSP DIVISION

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01/10/2021 – CURRENT – Caserta, Italy

**POSTDOCTORAL RESEARCHER** – CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI - CMCC FOUNDATION - REMHI DIVISION

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## ● EDUCATION AND TRAINING

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09/2019 – 10/2020 – Venice, Italy

**MASTER IN SCIENCE AND MANAGEMENT OF CLIMATE CHANGE, DYNAMIC CLIMATOLOGY.** – Cà Foscari University of Venice

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09/2016 – 02/03/2020 – Venice, Italy

**PHD IN SCIENCE AND MANAGEMENT OF CLIMATE CHANGE** – Cà Foscari University of Venice

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Physical Oceanographer

PhD degree cum laude

2014 – 2016 – Naples, Italy

**MASTER'S DEGREE IN SCIENCE AND TECHNOLOGY OF NAVIGATION - 110/110 CUM LAUDE** – Parthenope University of Naples

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Physical Oceanography  
Ocean Modelling  
Climatology

2010 – 2013 – Naples, Italy

**BACHELOR'S DEGREE IN NAUTICAL AND AERONAUTICAL SCIENCES (METEOROLOGY AND OCEANOGRAPHY) - 110/110 CUM LAUDE** – Parthenope University of Naples

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Meteorology  
Physical Oceanography

01/2016 – 02/2016 – Bologna, Italy

**CMCC INTERNSHIP** – Euro-Mediterranean Center on Climate Change (CMCC)

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Ocean modelling  
Data Analysis

28/10/2014 – 01/11/2014 – Italy

**OCEANOGRAPHIC CRUISE IN THE ADRIATIC SEA** – ISPRA

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02/07/2014 – 04/07/2014 – Italy

**OCEANOGRAPHIC CRUISE IN THE ADRIATIC SEA** – ISPRA

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10/2018 – 03/2019 – Grenoble, France

**INTERNSHIP AT THE INSTITUT DES GÉOSCIENCES DE L'ENVIRONNEMENT (IGE)** – Institut des Géosciences de l'Environnement (IGE)

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## ● LANGUAGE SKILLS

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**Mother tongue(s):** ITALIAN

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	B2	B2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● PUBLICATIONS

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### Publications

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Fedele, G., Bellucci, A., Masina, S. *et al.* Decadal variability of the Kuroshio Extension: the response of the jet to increased atmospheric resolution in a coupled ocean–atmosphere model. *Clim Dyn* (2020). <https://doi.org/10.1007/s00382-020-05528-4>

Bellucci, A., Athanasiadis, P., Scoccimarro, E. *et al.* Air-Sea interaction over the Gulf Stream in an ensemble of HighResMIP present climate simulations. *Clim Dyn* (2021). <https://doi.org/10.1007/s00382-020-05573-z>

Fedele, G., Penduff, T., Pierini, S. *et al.* Interannual to decadal variability of the Kuroshio extension: analyzing an ensemble of global hindcasts from a dynamical system viewpoint. *Clim Dyn* (2021). <https://doi.org/10.1007/s00382-021-05751-7>

Fedele G. et al., 2021: Characterization of the Atlantic Water and Levantine Intermediate Water in the Mediterranean Sea using 20 years of Argo Data (under review); <https://doi.org/10.5194/os-2021-68>

Fedele G. et al., 2021: The Kuroshio Extension low frequency variability: Investigating the sources of the associated predictability in an ensemble of global hindcasts (in preparation).

## ● CONFERENCES AND SEMINARS

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### Conferences

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**ANALYSIS OF THE KUROSHIO EXTENSION DECADAL VARIABILITY:** Internal Mechanisms and External Forcings CMCC.  
**Giusy Fedele**, Alessio Bellucci, Stefano Pierini, and Simona Masina.  
CMCC, Bologna, 27/09/2018. [ORAL PRESENTATION]

**ANALYSIS OF THE KUROSHIO EXTENSION DECADAL VARIABILITY:** Internal Mechanisms and External Forcings.  
**Giusy Fedele**, Alessio Bellucci, Stefano Pierini, and Simona Masina.  
THEMES WORKSHOP, 2018, Venice, 29/11/18. [ORAL PRESENTATION]

**Decadal variability of the Kuroshio Extension:** The response of the jet to increased model resolution.  
**Giusy Fedele**, Alessio Bellucci, Stefano Pierini, and Simona Masina.  
DRAKKAR 2019, IGE, Grenoble, 23/01/2019. [POSTER SESSION]

**ANALYSIS OF THE KUROSHIO EXTENSION DECADAL VARIABILITY:** Internal Mechanisms and External Forcings.  
**Giusy Fedele**, Thierry Penduff, Stefano Pierini, Alessio Bellucci, and Simona Masina.  
EGU 2019, Wien, 09/04/2019. [ORAL PRESENTATION]

**Interannual-to-decadal variability of the Kuroshio extension:**  
Analyzing an ensemble of global hindcasts from the Dynamical Systems theory viewpoint.  
**Giusy Fedele**, Thierry Penduff, Stefano Pierini, Alessio Bellucci, and Simona Masina.  
THEMES WORKSHOP, 2019, Venice, 28/11/2019. [ORAL PRESENTATION]

**Interannual-to-decadal variability of the Kuroshio Extension:** Analyzing an ensemble of global hindcasts from a dynamical system viewpoint.  
**Giusy Fedele**, Thierry Penduff, Stefano Pierini, Alessio Bellucci, and Simona Masina. DRAKKAR 2020, Grenoble, 03/02/2020. [ORAL PRESENTATION]

**Interannual-to-decadal variability of the Kuroshio extension:** Analyzing an ensemble of global hindcasts from a Dynamical System viewpoint.  
**Giusy Fedele**, Thierry Penduff, Stefano Pierini, M. Carmen Alvarez-Castro, Alessio Bellucci, and Simona Masina.  
EGU 2020, Wien, 05/05/2020. [SHARING GEOSCIENCE ONLINE! - VIRTUAL SESSION]

**Characterization of the AW and LIW in the Mediterranean Sea from Argo floats.**  
**Fedele G.**, Mauri E., Notarstefano G. and Poulain P.M.  
9th MONGOOS MEETING & WORKSHOP, 24/11/2020 [VIRTUAL SESSION].

**Predicting Climate Change over the multi-annual range: a perspective from CMCC Decadal Prediction System**  
Dario Nicoli, Alessio Bellucci, Paolo Ruggieri, Panos Athanasiadis, **Giusy Fedele**, and Silvio Gualdi  
EMS Annual Meeting 2021, 08/09/2021 [VIRTUAL SESSION].

**Interannual to decadal predictability of heatwaves over Europe in large-ensemble hindcasts.**  
**Fedele G.**, Athanasiadis P., Tsartsali E., Nicoli D., Tibaldi S., and Gualdi S.  
SISC 9th Annual Conference, 22/09/2021 [VIRTUAL SESSION].

**Predicting Climate Change over the multi-annual range: a perspective from CMCC Decadal Prediction System.**  
D. Nicoli, A. Bellucci, P. Ruggieri, P. Athanasiadis, **G. Fedele** and S. Gualdi  
SISC 9th Annual Conference, 23/09/2021 [VIRTUAL SESSION].

### Seminars

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27/09/2018 - **ANALYSIS OF THE KUROSHIO EXTENSION DECADAL VARIABILITY:** Internal Mechanisms and External Forcings, CMCC, Bologna.

09/12/2020 – Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, OGS, Trieste  
**Characterization of the AW and LIW in the Mediterranean Sea from Argo floats.**

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## ● **HONOURS AND AWARDS**

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### **Honours and awards**

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- Paolo Iannotti University Award 2015: Special Award "Excellent Graduates" Naples, 19/06/2015.
- Winner of the PlayEnergy competition organized by Piero Gnudi (the president of Enel on 24/02/2010) for the best scientific thesis on the theme << Water ... a precious good >>.

## ● **COURSES**

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### **Courses**

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Physics of the Ocean Summer School 2017. Bad Honnef, 09-14 July.

Climate Modelling Summer School 2017-NCAS. Cambridge, 10-22 September.

COST-Eumetsat training school 2018 on "Copernicus Marine Data in Ocean Models and Operational Applications". Hamburg, 05-09 February.

Diva Workshop 2020. Bologna, 27-30 January.