

PERSONAL INFORMATION



Anna Rubio

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Sex: female | **Date of birth:** 15/04/1977 | **Nationality:** Spanish

CURRENT POSITION

Since October 2008 I work at AZTI Marine Research (Pasaia, Spain). Today, I am senior researcher and my work is mainly focused on the Bay of Biscay shelf-slope circulation and mesoscale activity. My current research is based on numerical modelling, different source in-situ and remote sensing data and on high frequency observations of ocean surface currents from HF radar. I have authored/co-authored >28 peer-reviewed papers (h-11), authored/co-authored numerous contributions to international conferences (>70), have supervised 1 successful PhD (2 ongoing), 4 successful MSc candidates (2 ongoing), participated in 4 PhD committees and to the review of several scientific projects, articles and book chapters. Currently, I am participating in JERICO-NEXT (leading JRAP4 in WP4), CMEMS-SE COMBAT, CMEMS UU IBISAR and CMEMS-IN Situ TAC-phase II, LIFE-LEMA (LIFE) and MYCOAST (Interreg Atlantic Area) projects in tasks related to HF radar technology and applications, including the monitoring and forecast of marine litter hotspots.

WORK EXPERIENCE

- Oct. 2008 – today** **SENIOR RESEARCHER**
 Marine Research Division of AZTI-TECNALIA, Gipuzkoa (Spain).
- Oct. 2007 – Oct. 2008** **POSTDOCTORAL FELLOWSHIP**
 Laboratoire de Physique des Océans (UMR: UBO-IFREMER-CNRS-IRD), Brest, France; under the supervision of Dr. Bruno Blanke. Study of mesoscale activity in the Southern Benguela eastern boundary upwelling system (South Africa) and the impact of this mesoscale activity on the exchanges between this coastal system and the open ocean
- Sep. 2006 – Sep. 2007** **POSTDOCTORAL FELLOWSHIP**
 French research institute IFREMER (September 2006 - September 2007) at the Laboratoire Environnement et Resources Provence-Azur-Corse (LER/PAC), under the supervision of Dr. Pierre Garreau. Study of mesoscale dynamics in the NW Mediterranean from in situ Lagrangian data and numerical modelling.
- Jan. 2001 – Jul. 2006** **PREDOCTORAL FELLOWSHIPS**
 Laboratori d'Enginyeria Marítima of the Universitat Politècnica de Catalunya, LIM-UPC (Barcelona, Spain), under the supervision of Dr. Manuel Espino. PhD grant from the SPANISH SCIENCE AND EDUCATION MINISTRY (Jan. 2001 – Dec 2015) and PhD grant from the Universitat Politècnica de Catalunya (Jan 2006 – Jul.2006).
 - PhD research stay (June – Dec. 2004) , LEGI - Université Joseph Fourier, Grenoble (France). Numerical modelling of the mesoscale variability in the NW Mediterranean. Supervisor: Dr. Bernard Barnier.
 - PhD research stay (Oct. – Dec. 2002), CEFREM, Université de Perpignan, Perpignan (France). Hydrographic and ADCP data processing, geostrophic circulation inferring and analysis. Supervisor: Dr. Xavier Durrieu de Madron

EDUCATION AND TRAINING

- Sep. 2001 - Jun. 2006** **PhD in Physical Oceanography**
 PhD thesis entitled: "Mesoscale eddies in the NW Mediterranean: origin and evolution". LIM-Universitat Politècnica de Catalunya (Barcelona, Spain). Supervisor: Dr. Manuel Espino Infantes.
- Sep. 2001 - Sep. 2003** **DEA in Physical Oceanography**
 Laboratori d'Enginyeria Marítima of the Universitat Politècnica de Catalunya (Barcelona, Spain).
- Sep. 1995 – June 2000** **MSc Marine Sciences**
 Universitat de Alcant (Alacant, Spain)

PERSONAL SKILLS

Mother tongue(s)	SPANISH, CATALAN				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2
FRENCH	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					
Digital competence	Programming skills: Advanced MATLAB, Basic Fortran, LINUX environment				

ADDITIONAL INFORMATION

Publications (last 3 years)

See complete list at:
<https://orcid.org/0000-0002-6284-2639>

1. **Rubio, A.**, Manso-Narvarte, I., Caballero, A., Corgnati, L., Mantovani, C., Reyes, E., Griffa, A., and Mader, J.: The seasonal intensification of the slope Iberian Poleward Current, in: Copernicus Marine Service Ocean State Report, J. Oper. Oceanogr., Issue 3, 13-18, doi: 10.1080/1755876X.2019.1633075, 2019.
2. Astarloa, A., Louzao, M., Boyra, G., Martinez, U., **Rubio, A.**, Irigoien, X., K C Hui, F., Chust, G. Identifying main interactions in marine predator-prey networks of the Bay of Biscay, *ICES Journal of Marine Science*, 2019, fsz140, <https://doi.org/10.1093/icesjms/fsz140>
3. Declerck, A., M. Delpy, **Rubio, A.**, L. Ferrer, O. C. Basurko, J. Mader & M. Louzao, 2019 Transport of floating marine litter in the coastal area of the south-eastern Bay of Biscay: A Lagrangian approach using modelling and observations, *Journal of Operational Oceanography*, DOI: 10.1080/1755876X.2019.1611708
4. Roarty, H., Cook T, Hazard L, George D, Harlan J, Cosoli S, Wyatt L, Alvarez Fanjul E, Terrill E, Otero M, Largier J, Glenn S, Ebuchi N, Whitehouse B, Bartlett K, Mader J, **Rubio A.**, et al., 2019. The Global High Frequency Radar Network. *Front. Mar. Sci.* 6:164. doi: 10.3389/fmars.2019.00164.
5. Louzao M, García-Barón I, **Rubio A.**, Martínez U, Vázquez JA, Murcia JL, Nogueira E, Boyra G, 2019. Understanding the 3D environment of pelagic seabirds from multidisciplinary oceanographic surveys, to advance ecosystem-based monitoring. *Marine Ecology Progress Series*, Doi: 10.3354/meps12838
6. Hernández-Carrasco, I., Solabarrieta, L., **Rubio, A.**, Esnaola, G., Reyes, E., Orfila, A. Impact of HF radar current gap-filling methodologies on the Lagrangian assessment of coastal dynamics. *Ocean Sci.*, 14, 827–847. Doi: 10.5194/os-14-827-2018
7. Manso-Narvarte, I., Caballero, A., **Rubio, A.**, Dufau, C, Birol, F, in press. Joint analysis of coastal altimetry and high-frequency radar data: observability of seasonal and mesoscale ocean dynamics in the Bay of Biscay. *Ocean Sci.* doi: 10.5194/os-2018-33.
8. **Rubio A.**, Caballero A., Orfila, A., Hernández-Carrasco, I., Ferrer L., González M., Solabarrieta, L, Mader, J. (2018). Eddy-induced cross-shelf export of high Chl-a coastal waters in the SE Bay of Biscay. *Remote Sensing of Environment*, 205, 290-304, doi: 10.1016/j.rse.2017.10.037
9. **Rubio A.**, Mader J, Corgnati L, Mantovani C, Griffa A, Novellino A, Quentin C, Wyatt L, Schulz-Stellenfleth J, Horstmann J, Lorente P, Zambianchi E, Hartnett M, Fernandes C, Zervakis V, Goringe P, Melet A and Puillat I (2017). HF Radar Activity in European Coastal Seas: Next Steps Towards a Pan-European HF Radar Network. *Front. Mar. Sci.* 4:8. doi: 10.3389/fmars.2017.00008
10. Progress towards a French high frequency ocean surface wave radar network (2017). Quentin, C., B. Zakardjian, L. Marié, **A. Rubio**, A.-C. Bennis, F. Dumas, A. Sentchev, G. Sicot, Y. Barbin, S. Jousset, A. Bonnat, J. Mader, Y. Ourmières, G. Charria, S. Tarot et D. Mallarino. *Mercator Ocean Journal, Special Issue Coriolis*, Vol. 55, pp25-38.
11. Solabarrieta, L., S. Frolov, M. Cook, J. Paduan, A. **Rubio**, M. González, J. Mader, and G. Charria (2016). Skill Assessment of HF Radar-Derived Products for Lagrangian Simulations in the Bay of Biscay. *J. Atmos. Oceanic Technol.*, 33, 2585–2597, doi: 10.1175/JTECH-D-16-0045.1.
12. Boyra, G., Peña, M., Cotano, U., Irigoien, X., **Rubio, A.** and Nogueira, E. (2016), Spatial dynamics of juvenile anchovy in the Bay of Biscay. *Fish. Oceanogr.*, 25: 529–543. doi:10.1111/fog.12170
13. Caballero, A., **Rubio, A.**, Ruiz, S., Le Cann, B., Testor, P., Mader, J., Hernández, C. South-Eastern Bay of Biscay eddy-induced anomalies and their effect on Chlorophyll distribution. *Journal of Marine Systems* (2016). DOI: 10.1016/j.jmarsys.2016.04.001
14. Kersalé, M., Marié, L., Le Cann, B., Serpette, A. Lathuilière, C., Le Boyer, A., **Rubio, A.**, Lazure P. (2016) Poleward along-shore current pulses on the inner shelf of the Bay of Biscay. *Estuarine, Coastal and Shelf Science*, 179, 155-171, ISSN 0272-7714, doi:10.1016/j.ecss.2015.11.018.

Project evaluation, peer-review and editorial experience

Project evaluation: Agencia Nacional de Evaluación y Prospectiva (ANEP), since 2011 (>10 evaluations)
 Peer-review: *Ocean Science Discussion* (2013), *Scientia Marina* (2011), *Journal of Marine Systems* (2008, 2010), *Progress in Oceanography* (2008), Chapter in ELSEVIER Book: *Coastal Ocean Observing Systems: Advances and Syntheses* (2014), *Continental Shelf Research* (2015,2016) *Journal of Geophysical Research* (2017), *Remote Sensing of Environment* (2017, 2018), *Frontiers in Marine Science* (2019), Chapter in *Springer Handbook of Atmospheric Measurements* (2019)

Topic editor in *Ocean Science* (since 2019).

Participation in Working Groups

EuroGOOS Coastal Working Group (co-chair since 2018)
 EuroGOOS HFR Task Team (since 2015)
 GEO Global HF radar Component (Since 2013)
 IBERORED – HFR (Since 2010)

Teaching Tutoring

Master Courses in MASTER MER since 2010
 Supervised 4 successful MsC students, currently supervising 2 MsC students
 Supervised 1 successful PhD student, currently supervising 2 PhD students
 Participated in 4 PhD committees