PERSONAL INFORMATION

Lohitzune Solabarrieta Odriozola

AZTI / Unidad de Investigación Marina
Herrera Kaia, Portualdea z/g. 20110 Pasaia (SPAIN)
0034 667 107 406
lsolabarrieta@azti.es
Research Gate: www.researchgate.net/profile/Lohitzune-Solabarrieta-2
ORCID: https://orcid.org/0000-0003-4664-3637

Sex female | Date of birth 15/06/1982 | Nationality Spanish

CURRENT POSITION

Since July 2020 I work at AZTI Marine Research (Pasaia, Spain) as a junior researcher. I mainly focus on the analysis of the ocean surface currents at different spatio-temporal scales, measured mainly by High Frequency Radars (HFR) and compared/complemented with other measurements. Besides that, I am also involved in the processing and standardization of different European HFR datasets, validation exercises and x-band radar data treatment. I have authored/co-authored 10 peer-reviewed papers, authored/co-authored >45 presentations in international conferences, I have reviewed 2 scientific papers and I have been involved in the organization of an international conference. Currently, I am participating in JERICO-S3, CMEMS-IN Situ TAC-phase II, SUSTUNTECH and PI-BREAK projects in tasks related to HF radar technology and applications.

WORK EXPERIENCE

Jul. 2020 – today
RESEARCHER
Marine Research Division of AZTI-TECNALIA, Gipuzkoa (Spain).

Jan. 2020 – Jun. 2020
RESEARCHER
Data analysis and cybersecurity Department, Mondragon University, Gipuzkoa (Spain).

Oct. 2016 – Jan. 2020
POSTDOCTORAL FELLOWSHIPS
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia; under the supervision of Dr. Burton Jones. Study of the surface ocean circulation in the Red Sea, using High Frequency Radar data.

Dec. 2015 – Sep. 2016
RESEARCH ASSISTANT
University of Deusto, Bilbao, Spain.

Oct. 2010 – Jul. 2015
PREDOCTORAL FELLOWSHIPS
AZTI-BRTA (Pasaia, Spain), under the supervision of Dr. Anna Rubio. PhD grant from the “Funcación Centros Tecnológicos” (Bilbao, Spain).

- PhD research stay (Oct – Dec. 2012) , Naval Postgraduate School, Monterrey, California. High Frequency Radar processing. Supervisor: Dr. Jeffrey Paduan.

EDUCATION AND TRAINING

Oct. 2010 - Jul. 2015
PhD in Science and Technology for Coastal Management
PhD thesis entitled: “ Study of the surface ocean dynamics in the Bay os Biscay, using HF radar technology”. University of Cantabria (Santander, Spain). Supervisor: Dr. Anna Rubio, Dr. Sonia Castanedo, Dr. Raúl Medina.

Sep. 2009 - Feb. 2011
Master in Science and Technology for Coastal Management
University of Cantabria (Santander, Spain)

Sep. 2000 – Dec 2008
Civil Engineer degree
University of Cantabria (Santander, Spain)

PERSONAL SKILLS

Mother tongue(s): BASQUE, SPANISH

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1	C1	C1	C1	C1

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

1. Manso-Narvarte, I., **Solabarrieta, L.,** Caballero, A., Anabitarte, A., Knockaert, C., Dhondt, C. A., & Fernandes-Salvador, J. A. (2024). Fishing vessels as met-ocean data collection platforms: data lifecycle from acquisition to sharing. Frontiers in Marine Science, 11, 1467439.
2. Bertin S., Rubio A., Hernández-Carrasco I., **Solabarrieta L.**, Ruiz I., Orfila A., Sentchev A. (2024). Coastal current convergence structures in the Bay of Biscay from optimized high-frequency radar and satellite data. Science of The Total Environment, Vol. 947, 174372, ISSN 0048-9697, https://doi.org/10.1016/j.scitotenv.2024.174372
3. **Solabarrieta L**, Fernandes M, Ruiz I, Ferrer M, Liria P, de Santiago I, Sánchez J, Aranda JA and Rubio A (2024) Waves from compact SeaSonde® High Frequency radars in the southeastern Bay of Biscay: measurement performance under different noise and wind conditions. Front. Mar. Sci. 11:1250815. doi: 10.3389/fmars.2024.1250815
4. Lorente, P., Rubio, A., Reyes, E., **Solabarrieta, L.**, Piedracoba, S., Álvarez-Fanjul, E., Tintoré, J., and Mader, J., 2023. High Frequency radar-derived coastal upwelling index. Copernicus Publications, State Planet Discuss., 0, 3100, https://sp.copernicus.org/articles/1-osr7/8/2023/, 2023.
5. **Solabarrieta L.** et al., "Revamping data system and portal in the Basque Operational Oceanography," 2022 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea), 2022, pp. 193-197, doi: 10.1109/MetroSea55331.2022.9950947
6. **Solabarrieta, L.**, Hernández-Carrasco, I., Rubio, A., Campbell, M., Esnaola, G., Mader, J., Jones, B. H., and Orfila, A.: A new Lagrangian-based short-term prediction methodology for high-frequency (HF) radar currents, Ocean Sci., 17, 755–768, https://doi.org/10.5194/os-17-755-2021, 2021.
7. Hernández-Carrasco, I., **Solabarrieta, L.**, Rubio, A., Esnaola, G., Reyes, E., and Orfila, A., 2018. Impact of HF radar current gap-filling methodologies on the Lagrangian assessment of coastal dynamics, Ocean Sci., 14, 827-847, https://doi.org/10.5194/os-14-827-2018
8. A. Rubio, A. Caballero, A. Orfila, I. Hernández-Carrasco, L. Ferrer, M. González, **L. Solabarrieta**, J. Mader, 2018. Eddy-induced cross-shelf export of high Chl-a coastal waters in the SE Bay of Biscay. Remote Sensing of Environment, 205 (2018) 290-304
9. **L. Solabarrieta**, F. Frolov, M. Cook, J. Paduan, A. Rubio, M. González, J. Mader, G. Charria, 2016. Skill assessment of HF radar-derived products for lagrangian simulations in the Bay of Biscay. Journal of Atmospheric and Oceanic Technology, vol. 33, no. 12. DOI: 10.1175/JTECH-D-16-0045.1
10. **L. Solabarrieta**, 2015. Study of the surface ocean dynamics in the Bay of Biscay, using HF radar technology. PhD. Thesis, Cantabrian University.
11. **Solabarrieta, L.**, Rubio, A., Cárdenas, M., Castanedo, S., Esnaola, G., Méndez, F.J., Medina, R., Ferrer, L., 2015. Probabilistic relationships between wind and surface water circulation patterns in the SE Bay of Biscay. Ocean Dynamics, vol. 65, issue 9. DOI: 10.1007/s10236-015-0871-5.
12. **L. Solabarrieta**, A. Rubio, S. Castanedo, R. Medina, G. Charria and C. Hernández, 2014. Surface water circulation patterns in the southeastern Bay of Biscay: New evidences from HF radar data. Continental Shelf Research 74, 60-76.
13. A. Rubio, **L. Solabarrieta**, M. González, J. Mader, S. Castanedo, R. Medina, G. Charria, J. A. Aranda. Surface circulation and Lagrangian transport in the SE Bay of Biscay from HF radar data, 2013. OCEANS - Bergen, 2013 MTS/IEEE. DOI: 10.1109/OCEANS-Bergen.2013.6608039

Project evaluation, peer-review and editorial experience

Peer-review:
Proceedings of the Institute of Marine Engineering, Science and Technology. Journal of Operational Oceanography (2020).

Participation in Working Groups

EuroGOOS HFR Task Team (since 2020)

OSR - Working Group, In Situ Thematic Assembly Centre for Copernicus Marine Service 2

Teaching Tutoring

Participated in 2 MER Master committees (2021)

PhD co-advisor, course 2022-2023, Pau et des Pays de l'Adour University.