

Curriculum Vitae Luciana Fenoglio

Personal Information

Name: Luciana Fenoglio
Nationality: Italian, German
URL for website: <https://www.chalmers.se/en/persons/lucfen/>
<https://www.igg.uni-bonn.de/apmg/de/team/staff/fenoglio>
ResearcherID: J-3305-2016 ORCID: 0000-0003-3701-8426

Academic Education with Degree

1978–1983 Mathematics, University of Turin, Italy, MSc
1991–1996 PhD, Technische Universität Darmstadt, Germany

Scientific Degrees

1983 Mathematics (cum laude) from Faculty of Science, University of Turin, Italy
1996 Promotion Dr.-Ing. (sehr gut), Fakultät für Bauingenieur- und Vermessungswesen, Technische Universität Darmstadt (TU)
2014 Habilitation, Fakultät für Bauingenieur- und Vermessungswesen, TU Darmstadt
2015 Privat Dozent, Fakultät für Bauingenieur- und Vermessungswesen, TU Darmstadt

Further Career

1984–1985 Research Assistant, Centre d'Etudes et de Recherches Géodynamiques et Astronomiques (CERGA), France
1985–1986 Research Scientist, Alenia Space, Torino, Italy
1986–1990 Research Scientist, ESA/ESOC, Darmstadt, Germany
1990–1991 Research Scientist, Alenia Space, Torino, Italy
1991–2015 Research Assistant, Institute of Geodesy, Physical and Satellite Geodesy, Technische Universität Darmstadt, Germany
2015–present Senior Scientist, Institute of Geodesy and Geoinformation, Universität Bonn, Germany
2017–2020 Akademische Rätin at Universität Bonn
2020–present Akademische Oberrätin at Universität Bonn
2020–present Privat Dozent at Universität Bonn
2025–present Biträdande Professor at Chalmers University

Miscellanea

2004–present Member of editorial and reviewer of scientific programmers and journals, PhD thesis
2005– Member of International Association of Geodesy, Chair Study Gr. SC25.2 2021-High-resolution altimetry for geodetic, oceanographic, cryosphere and hydrology studies
2005- Member of Coastal Altimetry Working Group
2005- Member of Ocean Sea Surface Topography Science Team
2010- Member of Satellite Altimetry SAR expert group
2019–2020 Member of the Sentinel-6 Mission Advisory Group (MAG)
2020- Member of FF-SAR GPOD Working Group
2020–2021 Member of Copernicus Next Generation Topography Constellation Ad hoc Expert Group
2020– Member of Transdisciplinary Research Area Innovation and Technology for Sustainable Futures (TRA6)
2020– Member of SWOT Science Team

Projects

Funded (closed):

DFG (PI) Modelling sea level variability from satellite observations at regional and global scales
FE534/12

DFG (PI) Spatial and Temporal Resolution Limits for Regional Mass Transport and Mass Distribution
STREMP/SPP1257 FE 534/1-2 (PI), FE 534/1-1

DFG REgional COastal SEa LEdel change and sea surface Topography“, RECOSETO BE-1277/4-1,
DFG COastal SEa LEdel, COSELE/BE-1277-10-1, GR 361/26-2

ESA-Climate Change Initiative (CCI) Sea Level, 01.04.2016-31.12.2017

ESA-SCOOP, 01.10.2015-30.10.2019, (www.satoc.eu/projects/SCOOP),

ESA-GOCE++Dycot, 01.11.2015-31.03.2019, (<http://gocedt.eu>)

EU-European Sea Level Service Research Infrastructure (ESEAS-RI),

EU-Geodetic Earth Observation Technologies for Thailand (GEO2TECDI)

DAAD-Monitoring sea level variability in Indonesian coastal waters using satellite altimetry

ESA-HYDROCOASTAL, 18.02.2020-17.08.2022

ESA-HYDROCOASTAL CCN on TUDaBO processor, 01.10.2020-31.03.2022

University Bonn, Funding Line B: Bonn International Fellowships/E.Zakharova,

Funded (on-going):

4DBALTIC/ESA 01.04.2024-01.04.2026 (2 Master students and 1 collaborator)

DETECT B01/DFG 01.01.2021-30.06.2026 (1 PhD student)

COSWOT/DFG 15.04.2025-15.04.2028 (1 PhD student)

Publications (10)

Andreadis, K. M., Coss, S. P., Durand, M., Gleason, C. J., Simmons, T. T., Tebaldi, N., et al. included L. Fenoglio (2025). A First look at river discharge estimation from SWOT satellite observations. *Geophysical Research Letters*, doi.org/10.1029/2024GL114185

Chen, J., Fenoglio, L. and Kusche, J. (2025). Measuring off-nadir river water levels and slopes from altimeter fully-focused SAR mode. *Journal of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2024.132553>

Jaramillo et al. included L. Fenoglio (2024). The potential of hydrogeodesy to address water-related and sustainability challenges. *Water Resources Research*, doi:10.1029/2023WR037020

Durand M. et al. included L. Fenoglio (2023). A framework for estimating global river discharge from the SWOT satellite mission, *Water Resources Research*, <https://doi.org/10.1029/2021WR031614>

Chen J., L. Fenoglio, K. Kusche, K. Liao, H. Uyanik, Z.A. Nazdir, Y. Lou (2023). Evaluation of Sentinel-3A altimetry over Songhua river basin, *J. of Hydrology*, <https://doi.org/10.1016/j.jhydrol.2023.129197>

Buchhaupt C., Egido A., Smith W., L.Fenoglio (2022). Conditional surface statistics and their impacts on geophysical sea surface parameters retrieved from SAR altimetry signals, *AdSR*, <https://doi.org/10.1016/j.asr.2022.12.034>

Bruni S, Fenoglio L, Raicich F, Zerbini S (2022). On the consistency of coastal sea level measurements in the Mediterranean Sea from tide gauge and satellite altimetry. *J. of Geodesy*, <https://doi.org/10.1007/s00190-022-01626-9>

Buchhaupt, C., Fenoglio-Marc, L., Becker, M., Kusche, J. (2021). Impact of Vertical Water Particle Motions on Fully-Focused SAR Altimetry. *Adv. Space Res.*, 68(2), doi.org/10.1016/j.asr.2020.07.015.

Fenoglio, L., et al incl. J. Kusche (2020): Advances in NE-Atlantic coastal Sea Level Change Monitoring from Delay Doppler Altimetry, *Adv. Space Res.*, doi.org/10.1016/j.asr.2020.10.041.

Schroeder S., A. Springer, J. Kusche, B. Uebbing, L. Fenoglio, B Diekkrueger, and T. Pomeon (2019). Niger discharge from radar altimetry: bridging gaps between gauge and altimetry time series *Hydrol. Earth Syst. Sci.*, 23, 4113–4128, 2019 <https://doi.org/10.5194/hess-23-4113-2019>