

Brief CURRICULUM VITAE - Jérôme Benveniste

(2024-01-02)

Personal

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Previous affiliation (1992-2023)

European Space Agency, ESA-ESRIN

Earth Observation Science, Applications and Climate Department

Largo Galileo Galilei, 1

I-00044 Frascati (Roma), Italy

Current position

Former Senior Advisor (since 2008) in the ESA Earth Observation Science and Applications and Climate Department.

Currently, active in diverse positions: COSPAR vice-chair of the Earth Observations from Space Commission (A), Editor of Journal of Geophysics, Editor of the Remote Sensing journal Special Issue on "Advances in Satellite Altimetry", volume II (ongoing), Lead Organiser of the "30 Year of Progress in Radar Altimetry" Symposium, Advisor for the Operational Space Hydrology Center (TBC)

Education

- Post-Doctoral Research Associate, M.I.T., Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA, USA, on an ESA external fellowship, 1990-1991, under the supervision of Prof. Carl Wunsch.
- Doctorat de l'Université Paul Sabatier, Toulouse III, France, Spécialité: Océanographie Spatiale (PhD in Oceanography from Space), December 1989.
- Student of the International NATO School, "Ecole de Physique des Houches", Ocean circulation and modeling, 1992.
- Student of the International Summer School of Space Physics, "Remote Sensing from Space: Physical Aspects and Modelling", August 1988, CNES/CNRS/INRA, Toulouse, France.
- Diplôme d'Etudes Approfondies (D.E.A., Geophysics and Space Techniques; Option: Oceanography), June 1986 at Université Paul Sabatier, Toulouse III, France.
- Diplôme Universitaire de Langue Scientifique Anglaise (English for Science), June 1986 at Université de Toulouse III, France.
- Masters of Science (Physics & Geophysics), June 1985 at Université de Paris VII, France.

Professional Experience

- In charge of launching and steering a large number of Earth Observation missions' exploitation for Earth system science and application development projects in Oceanography, Cryosphere and Hydrology, within the European Space Agency since 1992
- In charge of the interfacing with ESA Earth Observation missions' Principal Investigators
- Project Manager of the Earth Observation Graphics Bureau service to boost the outreach and promotion of Earth Observation Programmes, in particular the scientific results provided by EO Missions Principal Investigators, 1998-2023, a noteworthy contribution to the excellent perception of all aspects of ESA's Living Planet Programme.
- Lead Organiser of landmark events such as the "15/20/25/30 years of Progress in Radar Altimetry" Symposia that draws together six scientific communities: Oceanography, Marine Meteorology, Land Hydrology, Cryosphere, Geodesy and Geophysics (2006, 2012, 2018, 2024) and

"OceanObs'09" (production and publication of 1800 pages of peer-reviewed papers, 3 Volumes of 600 pages each: Plenary Papers, Community White Papers, Additional Contribution; Doi: 10.5270/OceanObs09), Coastal Altimetry and Hydrospace Workshop series, Sentinel-3 for Science Workshop (2015), First Earth Energy Imbalance Assessment (WCRP-ESA-EEIA) Workshop (2023)

- Oceanographic mission in Antarctica, Weddel Sea (Bathymetry for sediment cores for paleo-oceanography, hydrological samplings), with "Terres Australes et Antarctiques Françaises", under the supervision of Prof. Laurent Labeyrie, spring 1982
- Sub-marine Archeology Missions, co-organiser: archeological methodology, precise positioning of vessel, magnetometry, side-scan sonar and sparker for wreck finding, sub-marine archeological work, coordination of divers; summers of 1982 through 1985
- Statistical survey for the French Ministry of Employment, 1981

Professional Achievements, Recognition and Service to the Scientific Communities

- Elected Chair of Sub-Commission A2 (Ocean and Cryosphere Observations from Space) of COSPAR for a 2008-2012 mandate, re-elected a second mandate (2012-2016)
- Leadership in the organisation of COSPAR Symposium 2015 on Water and Life in the Universe (Commission A session - Earth Observations from Space), 9-13 November 2015, Foz do Iguaçu, Brazil.
- Elected Vice-Chair of Commission A (Earth Observations from Space) of COSPAR for a 2016-2020 mandate
- Leadership in the organisation of COSPAR Scientific Assemblies' Commission A sessions (Earth Observations from Space)
- Leadership in the organisation of COSPAR Symposium 2023 on Small Satellites (Commission A session - Earth Observations from Space), 17-21 April 2023, Singapore.
- Organisation of and participation in Capacity Building Workshops for COSPAR (Fortaleza, Tver)
- Organisation of more than 50 Symposia, Conferences, Scientific Assemblies, and Workshops.
- Editor of many Special Issues in different journals (see separate list of publications)
- Primary Convener of Hydrology and Coastal Oceanography sessions at AGU and EGU.
- Solicited Member of the Scientific Council of the association des Amis des Sciences de la Terre et du Climat en Pic Saint-Loup (ASTEC-PSL), 2022-present
- Solicited Member of the Scientific Advisory Board of CoastPredict, a contribution to the UN Ocean Decade 2021-2030.
- Member of the GRGS Scientific Committee (2009-2014)
- Honorary Member of the Environmental Ocean Team, Ltd (2007-2014)
- Member of Scientific and Organising Committees, Chairman of Symposia and Workshops, and Invited Talks (76 occurrences)
- Evaluator, Rapporteur, Member of Project Reviews (13 occurrences)

Co-Supervisor of 13 PhD theses.

Member of Jury for 15 PhD defences.

Mentor of 8 ESA external Post-Docs.

Guest Editor of 16 Journal Special Issues.

Co-Editor of 6 books.

Author/co-author of 6 publications in the ESA Bulletin

Author/co-author of 127 peer-reviewed publications and of 225 proceedings abstracts.

(see separate list of publications)

Annex (cloned in publications list): Associate Editor of Scientific Journals and Co-Editor of Books

Associate Editor of Scientific Journals

1. Associate Editor for Advances Space Research, Oceanography and Hydrology sections, 2008-2012, the Official Journal of the Committee on Space Research (COSPAR).
2. Associate Editor for the Applied Geomatics International Journal of the Italian Society of Photogrammetry and Surveying 2008-2012.
3. Associate Editor of Journal of Geophysics (ongoing)

Guest Editor of Special Issues

1. Associate Editor for the Terrestrial Atmospheric and Oceanic Sciences Journal Special Issue on Satellite Altimetry, 2007.
2. Benveniste, J., Berry, P.A.M., Calmant, S., Grabs, W., Kosuth, P., Editors of the Proceedings of the Second Space for Hydrology Workshop "Surface Water Storage and Runoff: Modeling, In-Situ data and Remote Sensing", Geneva, Switzerland, 12-14 November 2007, ESA Publication WPP-280, 2007
3. Drinkwater, M.R. and Benveniste, J., Editors of the Proceedings of the 3rd International GOCE User Workshop, 6-8 November 2006, Frascati, Rome, Italy, European Space Agency Special Publication, ESA SP-627, 2007
4. Hwang, C., Benveniste, J., Dang, Y., Shum, C.K., Huh, C.-A., Guest Editors of the special issue on Satellite Altimetry over Land and Coastal Zones: Applications and Challenges, *Terrestrial, Atmospheric and Oceanic Sciences*, 19(1-2), 2008.
5. Benveniste, J., Producer and Publisher of the Special ESA Publication for OceanObs'09 Plenary Papers and Community White Papers, 3 Volumes, 1800 pages (peer-reviewed), Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference, Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, 2010, Doi:10.5270/OceanObs09
6. Benveniste, J., Shea, M.A., Guest Editors of the Special Issue on Oceanography, Cryosphere and Freshwater Flux to the ocean, in *Advances in Space Research*, 50(8), 2012
7. Benveniste, J., Editor, "Two Decades of Progress in Radar Altimetry"; Conference proceedings of 20 Years of Progress in Radar Altimetry Symposium, ESA SP-710, February 2013.
8. Islam, T., Srivastava, P.K., Hajnsek, I., Benveniste, J., Ge, L., Guest Editors of the Special Issue on "Emerging science and applications with microwave remote sensing data", *Physics and Chemistry of the Earth*, 83-84, 2015.
9. Benveniste, J. and Bonnefond, P., Editors for the Special Issue: 25 Years of Progress in Radar Altimetry, *Adv. in Space Res.*, 68(2), pp 317-1242, <https://doi.org/10.1016/j.asr.2021.01.020>, 15 July 2021 (925 pages, 59 articles)
10. Vignudelli, S. and Benveniste J., Editors of "Coastal Waters Monitoring Using Remote Sensing Technology", Special Issue, *Remote Sensing*, 500 pages, 2021.
11. Guest Editor for *Remote Sensing Journal* Special Issue on "Advances in Satellite Altimetry", 2023.
12. Guest Editor for *Remote Sensing Journal* Special Issue on "Advances in Satellite Altimetry, volume II", to be published Q4-2024.
13. Guest Editor for *Surveys in Geophysics Journal* Special Issues (4 published and ongoing)

Co-Editor of Books

1. Coastal altimetry, Vignudelli, S., Kostianoy, A.G., Cipollini, P., Benveniste J. Editors, 560 pages, ISBN 978-3-642-12796-0, Springer, 2011. <https://doi.org/10.1007/978-3-642-12796-0>
2. Remote sensing & water resources, Cazenave A; Champollion N. Benveniste J. and Chen J. Editors, 337 pages, Space Science Series of ISSI, vol 55, Springer, ISBN 978-3-319-32448-7, 2016.
3. Integrative study of the mean sea level and its components, 415 p., Cazenave A., Champollion N., Paul F. and Benveniste J. (Eds), 416 pages, Space Science Series of ISSI, vol 58, Springer Int. Pub., ISBN 978-3-319-56490-6., 2017.
4. Geohazards and risks studied by Earth observations, A. Cazenave, M. Manda, J. Benveniste, T. Lopez (Eds.), Space science series of ISSI, Springer, ISBN 978-3-030-87988-4, 455 pages, 2021.

5. Oceanography, Hydrology and Glaciology from Space, Earth Observation from Space Special Issue, J. Benveniste and A. Cazenave Editors, Surveys in Geophysics, to be published in Q1-2024 (all articles are already published on-line September 2023: <https://link.springer.com/collections/jaggdcfavg>).
6. Global change in Africa, A. Cazenave, D. Baratoux, T. Lopez and J. Benveniste Editors, Space science series of ISSI, Springer, Hardcover ISBN 978-3-031-39273-3, 19 September 2023.