

Leonardo Bagaglino

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Born: May 19, 1990—Velletri (RM), Italy



Profile

Earth Observation Data Scientist and certified Meteorologist (in agreement with the World Meteorological Organization).

Positions

- 2019, Jul - today [Post-doctoral Researcher](#).
Tasks: Passive microwave precipitation retrieval algorithm design and analysis.
National Research Council, Institute of Atmospheric and Climate Sciences, Roma, Italy.
- 2019, Jan - Jun [Research Fellow in Earth Science](#).
Tasks: GNSS Time series analysis and applications.
“Università degli Studi di Bologna”, Geophysics department, Bologna, Italy.
- 2018, Sep - Nov [Intern](#).
Tasks: HF radar observations analysis for eddy detection.
“Università degli Studi di Napoli Parthenope”, Science and Technology department, Napoli, Italy.
- 2014 - 2017 [Doctoral Researcher](#).
“Università degli Studi di Firenze”, department of Mathematics, Firenze, Italy.

Education

- 2017-2018 [POSTGRADUATE IN METEOROLOGY AND PHYSICAL OCEANOGRAPHY](#), “Università degli Studi del Salento” and “Università degli Studi di Napoli Parthenope”, Napoli, Italy.
Thesis: Analysis of coastal eddies in the Gulf of Naples.
Supervisor: Prof. Zambianchi Enrico.
Grade: 110/110 with honours.
- 2014-2017 [DOCTOR OF PHILOSOPHY](#) in Mathematics, “Università degli Studi di Firenze”, Firenze, Italy.
Thesis: Nilmanifolds, submanifolds and flows related to classes of G_2 -structures.
Supervisor: Prof. Fino Anna Maria.
- 2016-2017 Visiting scholar at “Università degli Studi di Torino”, Torino, Italy.
- 2012-2014 [MASTER’S GRADUATE](#) in Mathematics, “Università degli Studi di Roma: Tor Vergata”, Roma, Italy.
Thesis: Holonomy groups with irreducible representations.
Supervisor: Prof. Nacinovich Mauro.
Grade: 110/110 with honours.

2009-2012 **BACHELOR'S GRADUATE** in Mathematics, "Università degli Studi di Roma: Tor Vergata", Roma, Italy.
Thesis: Myers's Theorem and invariant metrics on Lie groups.
Supervisor: Prof. Iannuzzi Andrea.
Grade: 110/110 with honours.

Research articles and activities

- 2020 *Development of a microwave-based precipitation climate data record for the Copernicus Climate Change Service.* Panegrossi G., P. Sanò, L. Bagaglini, D. Casella, E. Cattani, H. Konrad, A. Niedorf, M. Schröder, A. C. Mikalsen, R. Hollmann. EGU General Assembly (Web Conference), April 2020.
- 2019 *Towards a climate data record of precipitation through merging satellite observations by passive microwave sounders and imagers.* H. Konrad, G. Panegrossi, A. Nedorf, P. Sanò, L. Bagaglini, M. Schröder, E. Cattani, A. C. Mikalsen, N. Selbach, R. Hollmann. The 22th international TOVS Study Conference, Quebec, Nov. 2019.
- 2019 *Eddy Detection in HF Radar-Derived Surface Currents in the Gulf of Naples.* Bagaglini, L.; Falco, P.; Zambianchi, E., Remote Sens. 2020, 12, 97.
<https://doi.org/10.3390/rs12010097>.
- 2019 *The energy functional of G_2 -structures compatible with a background metric,* L. Bagaglini, Journal of Geometric Analysis (2019),
<https://doi.org/10.1007/s12220-019-00264-6>
- 2019 *Non orientable three-submanifolds of G_2 -manifolds,* L. Bagaglini, Advances in Geometry, Volume 19, Issue 3, Pages 401–414, ISSN (Online) 1615-7168, ISSN (Print) 1615-715X,
<https://www.degruyter.com/view/j/advgeom.2019.19.issue-3/advgeom-2018-0023/advgeom-2018-0023.xml>.
- 2018 *The Laplacian co-flow on almost abelian Lie groups,* L. Bagaglini and A. Fino, Annali di Matematica (2018) 30(1), pp. 109–128.
<https://doi.org/10.1007/s10231-018-0753-9>.
- 2017 *Nilmanifolds, submanifolds and flows related to classes of G_2 -structures,* L. Bagaglini, Doctoral Thesis.
- 2017 *Laplacian co-flow on the Heisenberg group,* L. Bagaglini, A. Fino and M. Fernández, to appear in the Asian Journal of Mathematics.
[arXiv:1704.00295](https://arxiv.org/abs/1704.00295).
- 2016 *Coclosed G_2 -structures inducing nilsolitons,* L. Bagaglini, A. Fino and M. Fernández, Forum Mathematicum (2018) 30(1): 109–128
<https://doi.org/10.1515/forum-2016-0238>.

IT skills

Languages: C, Python.

Tools: MATLAB, TensorFlow, Keras, Scikit-learn, Numpy, Pandas, Panoply.



June 15, 2020

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