

# Glauco Gallotti

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Director of CREA - Agriculture and Environment Research Center

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## Profile

Ph.D. in Geophysics and Director of the CREA-AA Research Centre, with expertise in catastrophe modeling, insurtech applications, climate change, and natural hazard research. Experienced in physical and numerical modeling of natural hazards, risk assessment, and insurance-oriented analytics supporting portfolio evaluation and climate-related decision processes. Currently directing the strategic and scientific roadmap of CREA-AA Research Centre.

## Professional Experience

- 01/06/2026- present: **Director of CREA - Agriculture and Environment Research Center**  
Provide strategic oversight, financial governance, and scientific leadership for a premier national research center dedicated to sustainable agroecology, soil science, agrometeorology, and environmental preservation. Drive the translation of soil health, climate resiliency, and agroecosystem research into actionable policy support and innovative, circular solutions for the agricultural sector.
- 01/03/2023– 31/05/2026: **Natural Hazard Data Scientist**  
Leithà, Unipol Group – Rome (Italy)  
Activities: 1. Conduct data analysis related to natural hazards (hail, earthquakes, floods) and climate change. 2. Manage data storage and create visualizations. 3. Perform reviews and dissemination activities both within and outside the company.
- 07/11/2022– 15/01/2023 **Catastrophe Risk Modelist**  
Unipolsai – Bologna (Italy)  
Activities: Development and testing of catastrophe models for the estimation of natural hazards and risks related to severe convective storms, earthquakes, and climate change.
- 01/08/2021– 31/10/2022 **Postdoc**  
University of Bologna, Department of Physics and Astronomy “Augusto Righi”, Bologna (Italy)  
Activities: 1. Numerical simulations of tsunami waves and their impacts on the coasts. 2. Numerical simulations of tsunamigenic collapses on the flanks of submarine volcanoes in the Tyrrhenian Sea. 3. Analysis of the impact of long waves in docks. 4. Numerical simulations of tsunami waves in fjord and lakes environments. 5. Organization and participation in seminars. 6. Supervision in master thesis.
- 01/02/2019– 30/07/2021 **Postdoc**  
University of Bologna, Department of Physics and Astronomy “Augusto Righi”, Bologna (Italy)

Activities: 1. Slope stability analysis. 2. Investigation of the Nature-Based Solutions efficiency to mitigate natural hazards, also related to climate change. 3. Numerical simulations of tsunami waves and their impacts on the coasts. 4. Numerical simulations of tsunamigenic collapses on the flanks of submarine volcanoes in the Tyrrhenian Sea. 5. Organization and participation in seminars. 6. Supervision in master thesis.

- 01/03/2008–01/04/2012 **Business owner**  
Nottingham Pub & Cocktail Bar, Tivoli (Rome) (Italy)  
Activities: 1. Establish or identify prices of goods and services and tabulate the bills. 2. Maintain a clean and orderly environment 3. Resolve customer complaints. 4. Compile and maintain record and bookkeeping.
- 2006–2008 **Treasurer and Event Manager - Voluntary Experience**  
Rotary International Club, Tivoli (Rome) (Italy)  
Activities: 1. Keeping records of the Club financial affairs. 2. Planning and managing Club events.

## Education

- 2015–2019 **Ph.D. - Geophysics**  
University of Bologna, Bologna (Italy)
- 2012–2014 **M.Sc. - Earth System Physics**  
University of Bologna, Bologna (Italy)
- 2008–2012 **B.Sc. - Atmospheric Physics and Meteorology**  
University of Rome, Tor Vergata, Rome (Italy)
- 01/03/2017–01/07/2017 **Ph.D. Visiting**  
University College of Dublin- Mathematics Dept., Dublin, Ireland
- 15/07/2016–01/08/2016 **Matlab Summer School**  
University of Palermo, Palermo (Italy)
- 03/06/2016–07/06/2016 **Astarte, Pearl & Tandem Joint Summer School**  
Technical University of Crete, Chania (Greece)
- 01/08/2014–01/09/2014 IELTS **Intensive Course**  
Kaplan International School, Vancouver (Canada)

## Skills

Languages: Italian (native), English (C1), Spanish (B2), Portuguese (B1)

Programming & Tools: Python, Matlab, Surfer, CARTO, QGIS, Office Suite, LaTeX, FORTRAN 77.

Awards: Best Paper Presented by a Young researcher to “Tsunamigenic mass-failure scenarios in the Palinuro volcano chain” at 2020 IMEKO TC-19 International workshop on metrology for the sea, Naples (Italy), 4-6 October 2020.

## Selected Publications

1. Gallotti, G., Zaniboni, F., Arcangeli, D., Angeli, C., Armigliato, A., Cocchi, L., Muccini, F., Zanetti, M., Ventura, G. (2023) The tsunamigenic potential of landslide-generated tsunamis on the Vavilov seamount. *Journal of Volcanology and Geothermal Research*, In press.
2. Zieher T., Gallotti G., Rianna G., Reder A., Pfeifer J. (2022) Exploring the effects of climate change on the water balance of a continuously moving deep-seated landslide. *Nat Hazards*. <https://doi.org/10.1007/s11069-022-05558-7>.
3. Zaniboni F., Pagnoni G., Gallotti G., Tinti S., Armigliato A. (2021) Landslide-tsunamis along the flanks of Mount Epomeo, Ischia: propagation patterns and coastal hazard for the Campania Coasts, Italy. Geological Society, London, Special Publications, 519. <https://doi.org/10.1144/SP519-2020-128>.
4. Kumar P., Debele S.E., Sahani J., Rawat N., Marti-Cardona B., Alfieri S.A., Basu B., Basu A.S., Bowyer P., Charizopoulos N., Gallotti G., Jaakko J., Leo S.L., Loupis M., Menenti M., Mickovski S.B., Mun S.J., Gonzalez-Ollauri A., Pfeiffer J., Pilla F., Pröll J., Rutzinger M., Santo M.A., Sannigrahi S., Spyrou C., Tuomenvirta H., Zieher T. (2021) Nature-based solutions efficiency evaluation against natural hazards: Modelling methods, advantages and limitations. *Science of the Total Environment*, 784: 147058. <https://doi.org/10.1016/j.scitotenv.2021.147058>.
5. Gallotti G., Santo M.A., Apostolidou I., Alessandri J., Armigliato A., Basu B., Debele S., Domeneghetti A., Gonzalez-Ollauri A., Kumar P., Mentzafou A., Pilla F., Pulvirenti B., Ruggieri P., Sahani J., Salmivaara A., Basu A.S., Spyrou C., Pinardi N., Toth E., Unguendoli S., Pillai U.P.A., Valentini A., Varlas G., Verri G., Zaniboni F., Di Sabatino S. (2021) On the Management of Nature-Based Solutions in Open-Air Laboratories: New Insights and Future Perspectives. *Resources*, 10: 36. <https://doi.org/10.3390/resources10040036>.
6. Gallotti G., Tinti S., Zaniboni F., Pagnoni G., Romagnoli C., Gamberi F., Marani M. (2020) Tsunamis from prospected mass failures on Marsili flanks and hints for tsunami hazard evaluation. *Bulletin of Volcanology*, 83:2. <https://doi.org/10.1007/s00445-020-01425-0>.
7. Gallotti G., Passaro S., Armigliato A., Zaniboni F., Pagnoni G., Wang L., Sacchi M., Tinti S., Ligi M., Ventura G. (2020) Potential mass movements on the Palinuro volcanic chain (southern Tyrrhenian Sea, Italy) and consequent tsunami generation. *Journal of Volcanology and Geothermal Research*, 404: 107025. <https://doi.org/10.1016/j.jvolgeores.2020.107025>.
8. Gallotti G., Tinti S. (2020) A new approach for landslide modeling: application to the Scilla 1783 tsunamigenic landslide, South Italy. *Pure and Applied Geophysics*, 177: 3563–3576. <https://doi.org/10.1007/s00024-020-02546-5>.
9. Kumar P., Debele S.E., Sahani J., Aragão L., Barisani F., Basu B., Bucchignani E., Charizopoulos N., Di Sabatino S., Domeneghetti A., Sorolla Edo A., Finér, L., Gallotti G., Juch S., Leo L.S., Loupis M., Mickovski S.B., Panga D., Pavlova I., Pilla F., Löchner Prats A., Renaud F.G., Rutzinger M., Basu A.S., Aminur Rahman Shah M., Soini K., Stefanopoulou M., Toth E., Ukonmaanaho L., Vranic S., Zieher T. (2020) Towards operationalisation of nature-based solutions for natural hazards. *Science of the Total Environment* 731: 138855. <https://doi.org/10.1016/j.scitotenv.2020.138855>.
10. Zaniboni F., Pagnoni G., Gallotti G., Paparo M.A., Armigliato A., Tinti S. (2019) Assessment of the 1783 Scilla landslide-tsunami effects on Calabria and Sicily coasts through numerical modelling. *Natural Hazards and Earth System Sciences*, 19: 1585–1600. <https://doi.org/10.5194/nhess-19-1585-2019>.
11. Gallotti G., Tinti S. (2019) Numerical solutions for point masses sliding over analytical surfaces: Part 1. *Theoretical and Applied Mechanics Letters*, 9: 84-95. <https://doi.org/10.1016/j.taml.2019.02.004>.

12. Tinti S., Gallotti G. (2019) Numerical solutions for point masses sliding over analytical surfaces: Part 2. *Theoretical and Applied Mechanics Letters*, 9: 96:105. <https://doi.org/10.1016/j.taml.2019.02.005>.