PERSONAL INFORMATION

Zuliani David

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State personal website(s)

Sex Male | *Date of birth* 26/09/1971 | *Nationality* Italian

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

01/04/2023 – Today

Senior Technologist II level, permanent contract

National Institute of Oceanography and Applied Geophysics – OGS, Udine, Italy

- **CEGNxEPOS GLASS node** within **EPOS**, coordinator since 2016.
- **EPOS-Italy JRU General Assembly**, representative for OGS since 2016.
- **International Consortium on Landslides (ICL)**, representative for OGS since 2023.
- **EARTHSCOPE**, seismology, geodesy worldwide consortium, representative for OGS since 2023.
- **EUREF** Permanent Network (EPN), European GNSS net., representative for OGS since 2004.
- **TRUST** international cooperation network, MoU, representative for OGS since 2024.
- **FReDNet** GNSS network manager since 2002.
- OGS Scient. Man. for **PNRR MEET** Proj., 2.5-yrs, since 2022.
- OGS Scient. Man. 5-yrs **contract** with Ital. municip. (Tolmezzo) for **landslide** GNSS monitoring.
- OGS Proj. Man. in 2 OGS-INGV (Ist. Naz. di Geof. e Vulc.) **contracts** for **JRU EPOS-Italy** activities.
- OGS Scient. Man., of the **FISA MODERN** Proj. 2.5-yrs, since 2024.
- OGS OU Man., of the **PRIN PREPARED** Proj. 2-yrs, since 2023.
- OGS Guest Obs. of the **PRIN NASA4SHA** Proj. 3-yrs, since 2022.
- OGS Core Satff of the VS2 **PNRR RETURN** Proj, 2.5-yrs, since 2022.
- OGS contact person for Task 2.4 of the **Horizon Europe TRANSFORM2** Proj, 3-yrs, since 2024.
- OGS Proj. Man. of the **CEI** (Central European Initiative) INTERFACE 1-yr. proj, since 2023.

01/12/2017 – 01/03/2023

Technologist III level, permanent contract

National Institute of Oceanography and Applied Geophysics – OGS, Udine, Italy

- **UNAVCO**, geodesy worldwide consortium, representative for OGS since 2009 up to 31/12/2022.
- OGS Project Task Manager in the H2020 4 yrs. proj. European Plate Observing System **EPOS-SP**.
- OGS Proj. Man. in 2 OGS-INGV (Ist. Naz. di Geof. e Vulc.) contracts for **JRU EPOS-Italy** activities.
- OGS representative in the **EPOS-IP** (implementation phase) H2020 4-yrs. proj. since 2015.
- OGS Proj. Man. of the **CEI** (Central European Initiative) CEI-RISE 2-yrs. proj. since 2020.
- OGS WP3 coordinator of the VENET-ONE POR-FESR 2014-2020 Proj., 2.5-yrs, since 2022.
- OGS UO Principal Invest. **HPC** (High Perform. Computing) **TRES 2020** proj. for GNSS processing.
- OGS UO Principal Inves. **TRAN**sient of **S**tra**I**n … **E**xperime**NT**, Italian **Premiale** proj., MUR funds.
- OGS Scient. Man. 7-yrs contracts with Ital. priv. comp. (**ItalGas Stor. s.p.a**) GNSS gas-stora. monit.
- OGS Scient. Man. 2 contracts for **seismometer calibrations** with ital. priv. comp. (Lunitek s.r.l).
- OGS Technical Man. 1 contract with **ISPRA** (Ist. Sup. Prot. Ric. Amb.), GPS data exchange.
- OGS Technical Man. 1 contract with ital. priv. comp. **SoluTOP S.a.s.**, GNSS cost-effect. dev. devel.

01/01/2017 – 30/11/2017)

Technician IV level, permanent contract

National Institute of Oceanography and Applied Geophysics – OGS, Udine, Italy

- OGS Scient. Man. 1-yrs contracts with Ital. municip. (Tolmezzo) for **landslide** GNSS monitoring.
- GNSS data analyzer, 1 year proj.: FAglie Sismogen. e Tsunamigen Mari Ital. **FASTMIT**, MUR funds.

01/07/2009 – 31/12/2016

Technician V level, permanent contract

National Institute of Oceanography and Applied Geophysics – OGS, Udine, Italy

- OGS Scient. Man. 1-yrs contracts with Ital. municip. (Tolmezzo) for **landslide** GNSS monitoring.
- OGS Scient. Man. 7-yrs contracts with Ital. priv. comp. (Italgas s.p.a) for GNSS **gas-storage** monit.
- OGS Tech. Man. in the **OGS-IGM** (Ist. Geo. Mil.) agreement, GPS national data exchange.
- OGS Tech. Man. for GNSS RTK performance test in the **GPS-RTK** 5-yrs. proj. regional fund.
- OGS UO Tech. Man. Trans Adriatic Pipeline – **TAP** proj. for E.ON priv. comp., GNSS analysis.

01/08/2001 – 30/06/2009

Technician VI level, permanent contract

National Institute of Oceanography and Applied Geophysics – OGS, Udine, Italy

- GNSS perm. site network (**FReDNet**) design and manag. in the Italian **VALERIA** proj. MUR funds.
- seismometer calibrations and **shake table development**, OGS internal funds.
- OGS **INTA** (**IN**frastrutture **T**ecnologiche **A**vanzate) group coordinator.

01/03/2000 – 30/06/2001

Collaboration assignment

National Institute of Oceanography and Applied Geophysics – OGS, Trieste, Italy

- **electronic assistant** for geophysical while drilling monitoring electronic equipment.

EDUCATION AND TRAINING

07/2017 **II level Master Degree** in Management of Research, Innovation and Technology (Master MIT IV^ Edition) Polytechnic of Milan, fin. mark 108/110.

04/2009 I**nternship** “Geodetic analysis and data proc. techniques for continuous geodetic reference stations” (**Ohio State University** OSU, Geodesy and Geodynamics Group Division of Geodesy and Geospatial Science School of Earth Sciences Columbus, Ohio USA.

04/2009 I**nternship** “Field engineering for continuous geodetic reference stations and for survey measurements” (**Ohio State University** OSU, Geodesy and Geodynamics Group Division of Geodesy and Geospatial Science School of Earth Sciences Columbus, Ohio USA.

02/2002 I**nternship** “GPS technology” **Berkeley Seismological Lab.**, CA USA.

06/2000 Professional Electronic **Eng. qualification** (Univ. of Trieste, IT) final mark: 112/120.

02/2000 **Degree in Electronic Engineering** (5 years, Univ. of Trieste, IT), final mark: 109/110.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English: B2.1

Job-related skills Replace with any job-related skills not listed elsewhere.

Digital skills

- OS: GNU/Linux, Mac OS X, Microsoft Windows
- Programming languages: good knowledge of Matlab, shell scripting (bash and tcsh); basic knowledge of python, javascript, html, php, node.js and gmt.
- Specific software for GNSS data elaboration, job scheduling and Geog. Inf. Sys.: good knowledge of GAMIT/GLOBK, RTKLIB, GNSMART, basic knowledge of slurm and QGIS.

Other skills

- I supervised **9 university students** as a tutor in their degree and master theses. I was the Tutor in **7 training internships** (**44 months**) for research grants and scholarships for Italian and foreign university students. I taught professionals and universities in **8 training courses** (**163** hours of lessons), and in the Alternanza Scuola Lavoro (**ASL**) projects for 12 students of regional high schools (**15 weeks** or **290 hours**). I have collaborated in OGS educational activities for schools of all levels, providing visits both to the OGS headquarters and to schools following **13 classes** (**35 hours**).
- I participated in the organization and implementation of **12 OGS dissemination events**, including Open Days, the "Notte dei ricercatori" events, the workshops in collaboration with the Regional Civil Protection and the project conferences.
- I was (**3 years**) a staff representative in the **scientific board** of the Centro di Ricerche Sismologiche (CRS) section of OGS.
- Since 2014, I have held the role of safety officer and emergency management officer (**first aid and firefighting**) for the CRS.
- I am a member of the Technical Commission of the OGS for the "**Regulations on industrial property rights** acquired through patenting".
- I'm the OGS representative for the Technical Roundtable between the Veneto Region and OGS for the implementation of Action 5.3.1 of the **POR FESR** 2014-2019
- I'm the OGS representative for the **GNSS Technical Roundtable** in the framework agreement between OGS and INGV.

Publications

Lavinia Tunini, David Zuliani, Federico Di Traglia, Lorenzo Borselli, Claudio De Luca, Teresa Nolesini, Francesco Casu (2024), Monitoring and modelling moraine landslides: an example from Cazzaso village (Carnic Alps, Italy), Bulletin of Geophysics and Oceanography; published online 12 July 2024, DOI 10.4430/bgo00459;

Tunini L.; Magrin A.; Rossi G.; Zuliani D. Global Navigation Satellite System (GNSS) time series and velocities about a slowly convergent margin processed on high-performance computing (HPC) clusters: products and robustness evaluation. (2024) Earth System Science Data, 16 (2), pp. 1083 – 1106, https://essd.copernicus.org/articles/16/1083/2024;

Zuliani, D.; Tunini, L.; Severin, M.; Bertoni, M.; Ponton, C.; Parolai, S. LZER0: A Cost-Effective Multi-Purpose GNSS Platform. Sensors 2022, 22, 8314. https://doi.org/10.3390/s22218314.

Tunini, L., Zuliani, D., Magrin, A. (2022), Applicability of Cost-Effective GNSS Sensors for Crustal Deformation Studies, Sensors, no. 1: 350. https://doi.org/10.3390/s22010350.

Bragato, P. L., Comelli, P., Saraò, A., Zuliani, …, Parolai,S.(2021).The OGS–Northeastern Italy Seismic and Def. Net: Current Status and Outlook. Seismological Research Letters, 92(3), 1704-1716.

Rossi, G., Caputo, R., Zuliani, D., Fabris, P., Maggini, M., Karvelis, P., (2020) Analysis of GNSS data along the Southern Gas Corridor and estimate of the expected displacement, Environmental Geosciences 2020; 27 (3): 117–141. doi: https://doi.org/10.1306/eg.01222019023.

B. Grillo, C. Braitenberg, I. Nagy, R. Devoti, D. Zuliani, P. Fabris (2018), Cansiglio Karst Plateau: 10 Years of Geodetic–Hydrological Observations in Seismically Active Northeast Italy Pure Appl. Geophys., Vol. 175(5), 1765-1781, may 2018 DOI 10.1007/s00024-018-1860-7.

G. Rossi, P. Fabris, D. Zuliani (2018), Overpressure and Fluid Diffusion Causing Non-hydrological Transient GNSS Displacements. Pure Appl. Geophys., Vol. 175(5), 1869-1888, 2018-05-26 DOI 10.1007/s00024-017-1712-x.

D. Zuliani, P. Fabris, G. Rossi (2017) FReDNet: Evolution of a Permanent GNSS Receiver System. In: Cefalo R., Zieliński J., Barbarella M. (eds) New Advanced GNSS and 3D Spatial Techniques. Lecture Notes in Geoinformation and Cartography. Springer, Cham, First Online: 08 July 2017 DOI: 10.1007/978-3-319-56218-6_10.

G. Rossi, D. Zuliani, P. Fabris (04/2016). Long-term GNSS measurements from the northern Adria microplate reveal fault-induced fluid mobilization, Tectonophysics, 690, 142-159, DOI: 10.1016/j.tecto.2016.04.031.

A. Saraò, M. Clocchiatti, C. Barnaba, D. Zuliani (01/2016), Using an Arduino Seismograph to Raise

Awareness of Earthquake Hazard Through a Multidisciplinary Approach, Seismological Research Letters 87(1):186-192 January 2016; DOI: 10.1785/0220150091.

C. Braitenberg, D. Sampietro, T. Pivetta, D. Zuliani, A. Barbagallo, P. Fabris, L. Rossi, J. Fabbri and A. H. Mansi (10/2015), Gravity for Detecting Caves: Airborne and Terrestrial Simulations Based on a Comprehensive Karstic Cave Bench., Pure and App. Geop. (2015); DOI:10.1007/s00024-015-1182-y.

R. Devoti, D. Zuliani, C. Braitenberg, P. Fabris, B. Grillo (03/2015), Hydrologically induced slope deformations detected by GPS and clinometric surveys in the Cansiglio Plateau, southern Alps, Earth and Planetary Science Letters (2015), pp. 134-142, doi: 10.1016/j.epsl.2015.03.023.

E. Priolo, M. Romanelli, M. P. Plasencia Linares, M. Garbin, L. Peruzza, M. A. Romano, P. Marotta, P. Bernardi, L. Moratto, D. Zuliani, and P. Fabris (01/2015), Seismic Monitoring of an Underground Natural Gas Storage Facility: The Collalto Seismic Network, Seismological Research Letters, January/February 2015, v. 86, N. 1, p. 109-123, doi: 10.1785/0220140087.

A. Caporali, F. Neubauer, L. Ostini, G. Stangl, D. Zuliani (04/2013). Modeling surface GPS velocities in the Southern and Eastern Alps by finite dislocations at crustal depths, Tectonophysics 04/2013; 590. DOI: 10.1016/j.tecto.2013.01.016.

Bechtold, M., M. Battaglia, D. C. Tanner, and D. Zuliani (03/2009), Constraints on the active tectonics of the Friuli/NW Slovenia area from CGPS measurements and three-dimensional kinematic modeling, Journal of Geophysical Research Atmospheres, 114, B03408, doi:10.1029/2008JB005638.

N. D'Agostino, D. Cheloni, S. Mantenuto, G. Selvaggi, A. Michelini, D. Zuliani (01/2005). Strain accumulation in the Southern Alps (NE Italy) and deformation at the north-eastern boundary of Adria observed by CGPS measurements. Geop. Research Letters; 32(19). DOI:10.1029/2005GL024266.

September 7, 2025 David Zuliani