

Claudio Satriano

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ResearchGate : researchgate.net/profile/Claudio_Satriano



Born : March 23, 1979—Potenza, Italy
Nationality : Italian, French

Current position

Physicien Adjoint, Institut de Physique du Globe de Paris, France.

IPGP Data Center. Teaching activity at University Paris Diderot and IPGP.

Responsibilities

Scientist in charge for the [IPGP Data Center](#) (since 2017).

Director of the French National [RESIF Information System](#) for collection, archiving and distribution of French seismological data (since 2017).

Research interests

Earthquake source :

Multi-scale imaging of seismic rupture and fault zone properties through coherent seismic interferometry, fault slip inversion and aftershock analysis.

Microearthquake seismology and Seismotectonics :

Characterization of active deformation, stress accumulation and fracturing from microseismicity, in tectonic and reservoir environments.

Real-time seismology :

Rapid characterization of source parameters for seismic monitoring and earthquake early warning.

Seismic imaging and structural modeling :

Seismic tomography; Construction of velocity models from the integration of multi-parametric data.

Professional history

- Sep 2014
present Institut de Physique du Globe de Paris, France :
Physicien Adjoint. IPGP Data Center.
- Sep 2012
Aug 2014 Institut de Physique du Globe de Paris, France :
Contract researcher : "Space-time tracking of injection-induced deformation and fracturing using coherent seismic imaging". Collaboration with Schlumberger, Total and ADEME.
- Sep 2011
Aug 2012 Université Paris Diderot / Institut de Physique du Globe de Paris, France :
Teaching assistant (Attaché temporaire d'enseignement et de recherche).
- Mar 2011
Aug 2011 Institut de Physique du Globe de Paris, France :
Post-doc researcher.
- Mar 2010
Feb 2011 Institut de Physique du Globe de Paris, France :
Post-doc researcher, European Marie-Curie grant, [QUEST](#) Initial Training Network.
- Apr 2006
Feb 2010 AMRA scarl, Naples, Italy :
Scientific consultant at RISSC-Lab.
- Feb 2006
Mar 2006 Université Federico II, Naples, Italy :
Fellowship.

Education

- 2006 PhD in *Geophysics*, Università di Bologna, Italy.
- 2002 Degree in *Physics, Summa cum Laude*, Università Federico II, Naples, Italy.

Skills

Earthquake monitoring and seismic processing

Management and processing of seismic data :

Software development for data management and analysis; design of databases; data visualization; development of web applications for data access.

Seismic instrumentation and seismic networks :

Design and setup of seismic experiments for temporary or permanent monitoring.

Computing

- Operating Systems :* Linux, Mac OS X, Solaris, Windows.
- Programming Languages :* C, C++, Python, Matlab, Fortran, Bash, Awk.
- Databases :* MySQL, PostgreSQL, SQLite.
- Data visualization :* GMT, Matplotlib, Mayavi, KML (Google Earth).
- Seismological software :* SAC, Seismic Unix, ObsPy.
- Revision control :* Git, GitHub, SVN, CVS.
- Typesetting :* L^AT_EX, HTML/CSS, Markdown.

Languages

Italian (mother tongue), English (proficient), French (proficient).

Team working

Coordination of research teams; National and international research collaborations; Participation to open source software development projects; Student supervision.

Teaching experience

- + Co-supervisor of 2 PhD theses and 9 Master stages.
- + 90 hours on average of teaching per year :
 - Level : from Master 1 to PhD;
 - Topics : Seismology; Geophysical instrumentation and monitoring; Mathematics; Programming.

Community service

Reviewer for several international journals, including Geophysical Research Letters, Geophysical Journal International and Bulletin of the Seismological Society of America.

Free Software

- BackTrackBB : Multi-band array detection and location of seismic sources (backtrackbb.github.io), licence CeCILL v2.1
- SourceSpec : Earthquake source parameters from S-wave displacement spectra (github.com/seismicsource/sourcespec), licence CeCILL v2.1
- Requake : Repeating earthquakes search and analysis (github.com/seismicsource/requake), licence CeCILL v2.1
- RTLloc : Real Time Location for earthquake early warning (github.com/clauidodsf/rtlloc), GNU General Public License v2.0
- Pick_FP : An Earthworm module for real-time phase picking. Part of the official Earthworm release (www.earthwormcentral.org), GNU General Public License v2.0
- NLLGrid : Python class for reading and writing seismic velocity models and travel time grids in the NonLinLoc grid format (github.com/clauidodsf/nllgrid), licence CeCILL v2.1
- PhaseWorm (contributor) : Deep learning phase picker for Earthworm (github.com/jmsaurel/phaseworm), GNU General Public License v3.0
- ObsPy (contributor) : A Python Toolbox for seismology/seismological observatories (www.obspy.org), GNU General Public License v3.0

List of peer-reviewed publications

Journal articles: 44 articles
 Book chapters: 4 chapters
 Citations: 1842 citations, h-index: 21 (source: [Web of Science](#))

Journal articles

- 2024 S. Panebianco, **C. Satriano**, G. Vivone, M. Picozzi, A. Strollo, T. A. Stabile (2024). Automated detection and machine learning-based classification of seismic tremors associated with a non-volcanic gas emission (Mefite d'Ansanto, Southern Italy). *Geochem Geophys Geosy*, doi [10.1029/2023GC011286](https://doi.org/10.1029/2023GC011286).
- 2023 V. Durand, A. Mangeney, P. Bernard, X. Jia, F. Bonilla, **C. Satriano**, J.-M. Saurel, E.-M. Aissaoui, A. Peltier, V. Ferrazzini, P. Kowalski, F. Lauret, C. Brunet, C. Hibert (2023). Repetitive small seismicity coupled with rainfall can trigger large slope instabilities on metastable volcanic edifices. *Commun Earth Environ* 4, 383, doi [10.1038/s43247-023-00996-y](https://doi.org/10.1038/s43247-023-00996-y).
- 2023 S. Panebianco, V. Serlenga, **C. Satriano**, F. Cavalcante, T. A. Stabile (2023). Semi-automated template matching and machine-learning based analysis of the August 2020 Castelsaraceno microearthquake sequence (southern Italy). *Geomatics, Natural Hazards and Risk*, doi [10.1080/19475705.2023.2207715](https://doi.org/10.1080/19475705.2023.2207715).
- 2022 L. Retailleau, J.-M. Saurel, M. Laporte, A. Lavayssière, V. Ferrazzini, W. Zhu, G. C. Beroza, **C. Satriano**, J.-C. Komorowski, OVPF Team (2022). Automatic detection for a comprehensive view of Mayotte seismicity. *Comptes Rendus Géoscience*, doi [10.5802/crgeos.133](https://doi.org/10.5802/crgeos.133).
- 2022 L. Retailleau, J.-M. Saurel, W. Zhu, **C. Satriano**, G. C. Beroza, S. Issartel, P. Boissier, OVPF Team, OVSM Team (2022). A Wrapper to Use a Machine-Learning-Based Algorithm for Earthquake Monitoring. *Seismol. Res. Lett.*, doi [10.1785/0220210279](https://doi.org/10.1785/0220210279).
- 2022 M. Corradini, I. W. McBrearty, D. T. Trugman, **C. Satriano**, P. A. Johnson, P. Bernard (2022). Investigating the influence of earthquake source complexity on back-projection images using convolutional neural network. *Geophys. J. Int.*, doi [10.1093/gji/ggac026](https://doi.org/10.1093/gji/ggac026).
- 2021 A. Lavayssière, W. Crawford, J.-M. Saurel, **C. Satriano**, N. Feuillet, E. Jacques, J.-C. Komorowski (2021). A new 1D velocity model and absolute locations image the Mayotte seismo-volcanic region. *J. Volcanol. Geoth. Res.*, 107440, doi [10.1016/j.jvolgeores.2021.107440](https://doi.org/10.1016/j.jvolgeores.2021.107440).
- 2021 F. Boudin, P. Bernard, G. Meneses, C. Vigny, M. Olcay, C. Tassara, J.-P. Boy, E.-M. Aissaoui, M. Métois, **C. Satriano**, M.-F. Esnault, A. Nercessian, M. Vallée, J.-P. Vilotte, C. Brunet (2021). Slow slip events precursory to the 2014 Iquique Earthquake, revisited with long-base tilt and GPS records. *Geophys. J. Int.*, 228(3), 2092–2121, doi [10.1093/gji/ggab425](https://doi.org/10.1093/gji/ggab425).
- 2021 F. Massin, V. Clouard, I. Vorobieva, F. Beauducel, J.-M. Saurel, **C. Satriano**, M.-P. Bouin, D. Bertil (2021). Automatic picking and probabilistic location for earthquake assessment in the Lesser Antilles subduction zone (1972–2012). *Comptes Rendus Géoscience*, 353(S1), 1–23, doi [10.5802/crgeos.81](https://doi.org/10.5802/crgeos.81).

- 2021 J.-M. Saurel, E. Jacques, C. Aiken, A. Lemoine, L. Retailleau, A. Lavayssière, O. Foix, A. Dofal, A. Laurent, N. Mercury, ..., **C. Satriano**, F. Tronel, J. Van der Woerd, Y. Fouquet, S.J. Jorry, E. Rinnert, I. Thinon, N. Feuillet (2021). Mayotte seismic crisis: building knowledge in near real-time by combining land and ocean-bottom seismometers, first results. *Geophys. J. Int.*, doi [10.1093/gji/ggab392](https://doi.org/10.1093/gji/ggab392).
- 2021 N. Feuillet, S. Jorry, W.C. Crawford, C. Deplus, I. Thinon, E. Jacques, J.-M Saurel, A. Lemoine, F. Paquet, **C. Satriano**, ..., J. Van der Woerd (2021). Birth of a large volcanic edifice offshore Mayotte via lithosphere-scale dyke intrusion. *Nature Geoscience*, doi [10.1038/s41561-021-00809-x](https://doi.org/10.1038/s41561-021-00809-x).
- 2021 E. Oral, **C. Satriano** (2021). Future magnitude 7.5 earthquake offshore Martinique: spotlight on the main source features controlling ground motion prediction. *Geophys. J. Int.*, 227(2), 1076–1093, doi [10.1093/gji/ggab245](https://doi.org/10.1093/gji/ggab245).
- 2021 C. Péquegnat, J. Schaeffer, **C. Satriano**, H. Pedersen, J. Touvier, J.-M. Saurel, ..., A. Walpersdorf (2021). RÉSIF-SI: A Distributed Information System for French Seismological Data. *Seismol. Res. Lett.*, 92(3), 1832–1853, doi [10.1785/0220200392](https://doi.org/10.1785/0220200392).
- 2021 C. Cornou, J.-P. Ampuero, C. Aubert, L. Audin, S. Baize, ..., **C. Satriano**, ... (2021). Rapid response to the Mw 4.9 earthquake of November 11, 2019 in Le Teil, Lower Rhône Valley, France. *Comptes Rendus. Géoscience*, 353(S1), 1–23, doi [10.5802/crgeos.30](https://doi.org/10.5802/crgeos.30).
- 2020 F. Grigoli, W. Ellsworth, M. Zhang, M. Mousavi, S. Cesca, **C. Satriano**, G. C. Beroza, S. Wiemer (2020). Relative earthquake location procedure for clustered seismicity with a single station. *Geophys. J. Int.*, doi [10.1093/gji/ggaa607](https://doi.org/10.1093/gji/ggaa607).
- 2020 T. Lecocq, S. P. Hicks, K. Van Noten, K. van Wijk, P. Koelemeijer, R. S. M. De Plaen, F. Massin, G. Hillers, ..., **C. Satriano**,... (2020). Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. *Science*, eabd2438, doi [10.1126/science.abd2438](https://doi.org/10.1126/science.abd2438).
- 2020 F. Aden-Antóniow, **C. Satriano**, P. Bernard, N. Poiata, E.-M. Aissaoui, J.-P. Vilotte, W. B. Frank (2020). Statistical Analysis of the Preparatory Phase of the Mw 8.1 Iquique Earthquake, Chile. *J. Geophys. Res. Solid Earth*, 125, e2019JB019337, doi [10.1029/2019JB019337](https://doi.org/10.1029/2019JB019337).
- 2020 M. Supino, N. Poiata, G. Festa, J. P. Vilotte, **C. Satriano**, K. Obara (2020). Self-similarity of low-frequency earthquakes. *Sci. Rep.* 10, 6523, doi [10.1038/s41598-020-63584-6](https://doi.org/10.1038/s41598-020-63584-6).
- 2020 T. A. Stabile, V. Serlenga, **C. Satriano**, M. Romanelli, E. Gueguen, M. R. Gallipoli, et al. (2020). The INSIEME seismic network: a research infrastructure for studying induced seismicity in the High Agri Valley (southern Italy). *Earth Syst. Sci. Data*, 12, 519–538, doi [10.5194/essd-12-519-2020](https://doi.org/10.5194/essd-12-519-2020).
- 2019 E. Király-Proag, **C. Satriano**, P. Bernard, S. Wiemer (2019). Rupture process of the Mw 3.3 earthquake in the St. Gallen 2013 geothermal reservoir, Switzerland. *Geophys. Res. Lett.*, 46, doi [10.1029/2019GL082911](https://doi.org/10.1029/2019GL082911).
- 2018 Y. Klinger, K. Okubo, A. Vallage, J. Champenois, A. Delorme, E. Rougier, Z. Lei, EE. Knight, A. Munjiza, **C. Satriano**, S. Baize, R. Langridge, HS. Bhat (2018). Earthquake damage patterns resolve complex rupture processes. *Geophys. Res. Lett.*, 45(19),

- 10,279–10,287, doi [10.1029/2018GL078842](https://doi.org/10.1029/2018GL078842).
- 2018 V. Durand, A. Mangeney, F. Haas, X. Jia, F. Bonilla, A. Peltier, C. Hibert, V. Ferrazzini, P. Kowalski, F. Lauret, C. Brunet, **C. Satriano**, K. Wegner, A. Delorme, N. Villeneuve (2018). On the link between external forcings and slope instabilities in the Piton de la Fournaise summit crater, Reunion Island. *J. Geophys. Res. Earth Surf.*, 123(10), 2422–2442, doi [10.1029/2017JF004507](https://doi.org/10.1029/2017JF004507).
- 2018 N. Poiata, J.-P. Vilotte, P. Bernard, **C. Satriano**, K. Obara (2018). Imaging different components of a tectonic tremor sequence in southwestern Japan using an automatic statistical detection and location method. *Geophys. J. Int.*, 213(3), 2193–2213, doi [10.1093/gji/ggy070](https://doi.org/10.1093/gji/ggy070).
- 2017 S. Ruiz, F. Aden-Antoniow, J.C. Baez, C. Otarola, B. Potin, F. del Campo, P. Poli, C. Flores, **C. Satriano**, F. Leyton, R. Madariaga, P. Bernard. Nucleation phase and dynamic inversion of the Mw 6.9 Valparaíso 2017 earthquake in Central Chile. *Geophys. Res. Lett.*, 44, 10,290–10,297, doi [10.1002/2017GL075675](https://doi.org/10.1002/2017GL075675). — [Editors' Highlight](#).
- 2016 N. Poiata, **C. Satriano**, P. Bernard, J.-P. Vilotte, K. Obara. Multi-band array backprojection method for detection and location of seismic sources recorded by dense seismic networks. *Geophys. J. Int.*, 205(3), 1548–1573, doi [10.1093/gji/ggw071](https://doi.org/10.1093/gji/ggw071).
- 2015 R. Grandin, M. Vallée, **C. Satriano**, R. Lacassin, Y. Klinger, M. Simoes, L. Bollinger. Rupture process of the Mw=7.9 2015 Gorkha earthquake (Nepal): insights into Himalayan megathrust segmentation. *Geophys. Res. Lett.*, 42, 8373–8382, doi [10.1002/2015GL066044](https://doi.org/10.1002/2015GL066044).
- 2014 **C. Satriano**, V. Dionicio, H. Miyake, N. Uchida, J.-P. Vilotte, P. Bernard (2014). Structural and thermal control of seismic activity and megathrust rupture dynamics in subduction zones: Lessons from the Mw 9.0, 2011 Tohoku earthquake, *Earth Planet. Sci. Lett.*, 403, 287–298, doi [10.1016/j.epsl.2014.06.037](https://doi.org/10.1016/j.epsl.2014.06.037).
- 2014 M. Vallée, **C. Satriano** (2014). Ten-year recurrence time between two major earthquakes affecting the same fault segment, *Geophys. Res. Lett.*, 41 (7), 2312–2318, doi [10.1002/2014GL059465](https://doi.org/10.1002/2014GL059465).
- 2014 C. Hibert, A. Mangeney, G. Grandjean, C. Baillard, D. Rivet, N.M. Shapiro, **C. Satriano**, A. Maggi, P. Boissier, V. Ferrazzini, W. Crawford (2014). Automated identification, location and volume estimation of rockfalls at Piton de la Fournaise volcano, *J. Geophys. Res. Earth Surf.*, 119(5), 1082–1105, doi [10.1002/2013jfo02970](https://doi.org/10.1002/2013jfo02970).
- 2013 S. Ruiz, R. Grandin, V. Dionicio, **C. Satriano**, A. Fuenzalida, C. Vigny, E. Kiraly, C. Meyer, J.C. Baez, S. Riquelme, R. Madariaga, J. Campos (2013). The Constitución earthquake of 25 March 2012: a large aftershock of the Maule earthquake near the bottom of the plate interface, *Earth Planet. Sci. Lett.*, 377–378, 347–357, doi [10.1016/j.epsl.2013.07.017](https://doi.org/10.1016/j.epsl.2013.07.017).
- 2013 E. Matrullo, R. De Matteis, **C. Satriano**, O. Amoroso, A. Zollo (2013). An improved 1D seismic velocity model for seismological studies in the Campania-Lucania region (Southern Italy), *Geophys. J. Int.*, 195 (1), 460–473, doi [10.1093/gji/ggt224](https://doi.org/10.1093/gji/ggt224).

- 2012 **C. Satriano**, E. Kiraly, P. Bernard, J.-P. Vilotte (2012). The 2012 Mw 8.6 Sumatra earthquake: evidence of westward sequential seismic ruptures associated to the reactivation of a N-S ocean fabric, *Geophys. Res. Lett.*, 39 (15), L15302, doi [10.1029/2012GL052387](https://doi.org/10.1029/2012GL052387). — [Editors' Highlight](#).
- 2012 T. A. Stabile, **C. Satriano**, A. Orefice, G. Festa, A. Zollo (2012). Anatomy of a microearthquake sequence on an active normal fault, *Sci. Rep.*, 2, 410, doi [10.1038/srep00410](https://doi.org/10.1038/srep00410).
- 2012 A. Lomax, **C. Satriano**, M. Vassallo (2012). Automatic Picker Developments and Optimization: FilterPicker—a Robust, Broadband Picker for Real-Time Seismic Monitoring and Earthquake Early Warning, *Seismol. Res. Lett.*, 83 (3), 531-540, doi [10.1785/gssrl.83.3.531](https://doi.org/10.1785/gssrl.83.3.531).
- 2012 M. Vassallo, **C. Satriano**, A. Lomax (2012). Automatic Picker Developments and Optimization: A Strategy for Improving the Performances of Automatic Phase Pickers, *Seismol. Res. Lett.*, 83 (3), 541-554, doi [10.1785/gssrl.83.3.541](https://doi.org/10.1785/gssrl.83.3.541).
- 2011 **C. Satriano**, Y.M. Wu, A. Zollo, H. Kanamori (2011). Earthquake early warning: Concepts, methods and physical grounds, *Soil. Dyn. Earthquake. Eng.*, 31 (2), 106-118, doi [10.1016/j.soildyn.2010.07.007](https://doi.org/10.1016/j.soildyn.2010.07.007).
- 2011 **C. Satriano**, L. Elia, C. Martino, M. Lancieri, A. Zollo, G. Iannaccone (2011). PRESTo, the earthquake early warning system for Southern Italy: Concepts, capabilities and future perspectives, *Soil. Dyn. Earthquake. Eng.*, 31 (2), 137-153, doi [10.1016/j.soildyn.2010.06.008](https://doi.org/10.1016/j.soildyn.2010.06.008).
- 2010 G. Iannaccone, M. Vassallo, L. Elia, S. Guardato, T. A. Stabile, **C. Satriano**, L. Beranzoli (2010). Long-term Seafloor Experiment with the CUMAS Module: Performance, Noise Analysis of Geophysical Signals, and Suggestions about the Design of a Permanent Network, *Seismol. Res. Lett.*, 81 (6), 916-927, doi [10.1785/gssrl.81.6.916](https://doi.org/10.1785/gssrl.81.6.916).
- 2010 G. Iannaccone, A. Zollo, L. Elia, V. Convertito, **C. Satriano**, C. Martino, G. Festa, M. Lancieri, A. Bobbio, T. A. Stabile, M. Vassallo, A. Emolo (2010). A prototype system for earthquake early-warning and alert management in southern Italy, *Bull. Earthquake Eng.*, 8 (5), 1105-1129, doi [10.1007/s10518-009-9131-8](https://doi.org/10.1007/s10518-009-9131-8).
- 2009 L. Elia, **C. Satriano**, G. Iannaccone (2009). SeismNet Manager – A Web Application To Manage Hardware And Data Of A Seismic Network, *Seismol. Res. Lett.*, 80 (3), 420-430, doi [10.1785/gssrl.80.3.420](https://doi.org/10.1785/gssrl.80.3.420).
- 2009 A. Zollo, G. Iannaccone, M. Lancieri, L. Cantore, V. Convertito, A. Emolo, G. Festa, F. Gallovic, M. Vassallo, C. Martino, **C. Satriano**, and P. Gasparini (2009). The earthquake early warning system in Southern Italy: Methodologies and performances evaluation, *Geophys. Res. Lett.*, 36, L00B07, doi [10.1029/2008GL036689](https://doi.org/10.1029/2008GL036689).
- 2008 **C. Satriano**, A. Lomax, A. Zollo (2008). Real-time evolutionary earthquake location for seismic early warning, *Bull. Seism. Soc. Am.*, 98 (3), 1482-1494, doi [10.1785/0120060159](https://doi.org/10.1785/0120060159).
- 2008 **C. Satriano**, A. Zollo, C. Rowe (2008). Iterative Tomographic Analysis based on Automatic Refined Picking, *Geophys. Prospect.*, 56 (4), 467-475, doi [10.1111/j.1365-2478.2008.00700.x](https://doi.org/10.1111/j.1365-2478.2008.00700.x).

- 2007 E. Weber, V. Convertito, G. Iannaccone, A. Zollo, A. Bobbio, L. Cantore, M. Corciulo, M. Di Crosta, L. Elia, C. Martino, A. Romeo, and **C. Satriano** (2007). An Advanced Seismic Network in the Southern Apennines (Italy) for Seismicity Investigations and Experimentation with Earthquake Early Warning, *Seismol. Res. Lett.*, 78 (6), 622-634, doi [10.1785/gssrl.78.6.622](https://doi.org/10.1785/gssrl.78.6.622).

Book chapters

- 2009 A. Zollo, G. Iannaccone, V. Convertito, L. Elia, I. Iervolino, M. Lancieri, A. Lomax, C. Martino, **C. Satriano**, E. Weber and P. Gasparini (2009). Earthquake Early Warning System in southern Italy. In *Encyclopedia of Complexity and Systems Science*, R. A. Meyers (editor), Springer-Verlag, vol. 5, pp. 2395-2421, ISBN: [978-0-387-75888-6](https://doi.org/10.1007/978-0-387-75888-6).
- 2007 **C. Satriano**, A. Lomax, A. Zollo (2007). Optimal, real-time earthquake location for early warning. In *Earthquake Early Warning Systems*, P. Gasparini, G. Manfredi and J. Zschau (editors), Springer-Verlag, ISBN: [978-3-540-72240-3](https://doi.org/10.1007/978-3-540-72240-3), doi [10.1007/978-3-540-72241-0_6](https://doi.org/10.1007/978-3-540-72241-0_6).
- 2007 E. Weber, G. Iannaccone, A. Zollo, A. Bobbio, L. Cantore, M. Corciulo, V. Convertito, M. Di Crosta, L. Elia, A. Emolo, C. Martino, A. Romeo, **C. Satriano** (2007). Development and testing of an advanced monitoring infrastructure (ISNet) for seismic early-warning applications in the Campania region of southern Italy. In *Earthquake Early Warning Systems*, P. Gasparini, G. Manfredi and J. Zschau (editors), Springer-Verlag, ISBN: [978-3-540-72240-3](https://doi.org/10.1007/978-3-540-72240-3), doi [10.1007/978-3-540-72241-0_16](https://doi.org/10.1007/978-3-540-72241-0_16).
- 2006 **C. Satriano**, A. Zollo, P. Capuano, G. Russo, T. Vanorio, G. Caielli, L. Lovisa, M. Moretti (2006). A 3D velocity model for earthquake location in Campi Flegrei area: application to the 1982-84 uplift event. In *Geophysical Exploration of the Campi Flegrei (Southern Italy) Caldera's Interiors: Data, Methods and Results*, A. Zollo, P. Capuano and M. Corciulo (editors), Doppiavoce, Napoli, ISBN: [978-88-89972-04-5](https://doi.org/10.1007/978-88-89972-04-5).

Dissertations

- 2006 Real time location for a seismic alert management system. Development, HW/SW integration, definition and study of velocity models (tutor: Prof. A. Zollo), *for the PhD in Geophysics, Università di Bologna, Italy*. Available at [this link](#).
- 2002 Signal analysis based on multiple spatial coherency: application to seismic exploration data (supervisor: Prof. A. Zollo), *for the master degree in Physics, Università Federico II, Naples, Italy*.

Invited talks

- 2017 Rupture Complexity of Great Earthquakes and Its Effects on Seismic Radiation, *Workshop: Great Earthquakes: Observations and Modeling, Collège de France, 30 November, 2017*.
- 2014 Multi-band array backprojection method for detection and location of seismic sources, *CGG, Massy, France, 16 May, 2014*.
- 2014 Fault segmentation and segment interactions: a seismological perspective, *École Nor-*

- male Supérieure, Paris, France, 6 May, 2014.*
- 2014 Multi-band array backprojection method for detection and location of seismic sources, *Schlumberger Gould Research Center, Cambridge, UK, 17 February, 2014.*
- 2014 Fault segmentation and segment interactions: a seismological perspective, *IPGP, Paris, France, 11 February, 2014.*
- 2013 Suivi et caractérisation des sources sismiques à différentes échelles par les méthodes d'antenne, *Rencontres scientifiques et techniques RESIF, Yenne, France, 14-16 October, 2013.*
- 2013 Applications des méthodes d'antenne pour le suivi de la sismicité à différents échelles (des mega-thrusts à la micro-sismicité), *CEA, Bruyères-le-Châtel, France, 7 November, 2013.*
- 2012 Using back projection to image earthquake source complexity, *IRSN, Fontenay-aux-Roses, France, 21 June, 2012.*
- 2012 Using back projection to image earthquake source complexity, *EOST, Strasbourg, France, 10 April, 2012.*
- 2012 Using back projection to image earthquake source complexity, *Géoazur, Nice, France, 29 March, 2012.*
- 2012 Using back projection to image earthquake source complexity, *ISTErre, Grenoble, France, 15 March, 2012.*
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