Claudio Satriano

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Né : 23 Mars 1979—Potenza, Italie
Nationalité : Italienne, Française

Position actuelle

Physicien Adjoint, Institut de Physique du Globe de Paris, France.
Responsable scientifique du Centre de Données IPGP. Activité d'enseignement à l'Université Paris Cité et à l'IPGP.

Intérêts de recherche

Source sismique :
Imagerie multi-échelle de la radiation des sources sismiques et des propriétés des zones de faille à travers l'interférométrie sismique cohérente, l'inversion du glissement co-sismique et l'analyse des répliques.

Microséismes et Sismotectonique :
Caractérisation, à travers la microsismicité, de la déformation active, l'accumulation de contrainte et la fracturation, en contexte tectonique et de réservoir.

Sismologie en temps réel :
Caractérisation rapide des paramètres de source pour la surveillance sismique et l'alerte sismique précoce.

Imagerie sismique et modélisation structurale :
Tomographie sismique ; Construction de modèles de vitesse à partir de l'intégration des données multiparamétriques.

Parcours professionnel

Sep 2014 – présent : Institut de Physique du Globe de Paris, France :
Physicien Adjoint. Responsable Scientifique du Centre de Données IPGP.

Sep 2012 – Aoû 2014 : Institut de Physique du Globe de Paris, France :
CDD Chercheur : «Space-time tracking of injection-induced deformation and fracturing using coherent seismic imaging». Collaboration avec Schlumberger, Total et Ademe

Sep 2011 – Aoû 2012 : Université Paris Diderot / Institut de Physique du Globe de Paris, France :
Attaché temporaire d'enseignement et de recherche

Mar 2011 – Aoû 2011 : Institut de Physique du Globe de Paris, France :
Chercheur post-doc

Mar 2010 – Fév 2011 : Institut de Physique du Globe de Paris, France :
Chercheur post-doc, bourse communauté Européenne QUEST Initial Training Network.

Avr 2006 – Fév 2010 : AMRA scarl, Naples, Italie :
Consultant scientifique auprès du RISSC-Lab

Fév 2006 – Mar 2006 : Université Federico II, Naples, Italie :
Bourse de recherche

Cursus universitaire

2006 : *Doctorat en Géophysique*, Université de Bologne, Italie.

"Real time location for a seismic alert management system. Development, HW/SW integration, definition and study of velocity models". Tutor : Prof. Aldo Zollo.

2002 : *Master en Physique, mention excellent*, Université de Naples Federico II, Italie.

"Signal analysis based on multiple spatial coherency : application to seismic exploration data". Supervisor : Prof. Aldo Zollo.

Experience d'enseignement

- Co-encadrant de 7 thèses de doctorat.
- Encadrant de 14 stages de M1/M2.
- Plus de 500 heures d'enseignement, dans la période 2016-2022 :
  - Niveau : de Master 1 à PhD ;
  - Langues : Français, Anglais.

Principaux logiciels développés

`BackTrackBB` : détection et localisation des sources sismique par méthode d'antenne (backtrackbb.github.io), licence CeCILL v2.1

`SourceSpec` : paramètres de source des tremblements de terre par analyse du spectre de déplacement d'onde S (github.com/seismicsource/sourcespec), licence CeCILL v2.1

`Requake` : recherche et analyse de séismes répétés (github.com/seismicsource/requake), licence CeCILL v2.1

`RTLoc` : localisation en temps réel pur l'alerte sismique précoce (github.com/claudiodsf/rtloc), GNU General Public License v2.0

`Pick_FP` : module du système Earthworm pour le pointage en temps réel des arrivées d'ondes P et S. Partie de la distribution officielle d'Earthworm (www.earthwormcentral.org), GNU General Public License v2.0

`NLLGrid` : une classe Python pour lire et écrire des modèles de vitesse des ondes sismiques et des grilles de temps de trajet dans le format "NonLinLoc grid" (github.com/claudiodsf/nllgrid), licence CeCILL v2.1

`PhaseWorm` (contributeur) : pointage des arrivées d'ondes P et S dans Earthworm, basé sur le deep learning (github.com/jmsaurel/phaseworm), GNU General Public License v3.0

`ObsPy` (contributeur) : une boîte à outils Python pour la sismologie et les observatoires sismologiques (www.obspy.org), GNU General Public License v3.0

Liste des publications avec comité de lecture

Dans des revues :	44 articles
Chapitres d'ouvrage :	4 articles
Citations :	1842 citations, h-index : 21 (source : Web of Science)

Dans des revues

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 Geophy Geosy*, doi 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.

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.

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.

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.

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.

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.

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. Esnoult, 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 AgriValley (southern Italy). *Earth Syst. Sci. Data*, 12, 519–538, doi 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.

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.

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.

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.

2017 S. Ruiz, F. Aden-Antoniow, JC. 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. — 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.

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.

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.

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.

2014 C. Hibert, A. Mangeney, G. Grandjean, C. Baillard, D. Rivet, N.M. Shapiro, **C. Satriano**, A. Maggi, P. Boissier, V. Ferrazini, 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 10.1002/2013jf002970.

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.

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.

2012 **C. Satriano**, E. Kiraly, P. Bernard, J.-P. Vilotte (2012). The 2012 Mw 8.6 Sumatra earth-

quake : 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. — 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Chapitres d'ouvrage

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.

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, doi 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, doi 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.

Memoires

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.*

Séminaires invités

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 Normale 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.*

2011 Multi-scale imaging of the 2011 great Tohoku earthquake using seismic antenna techniques. *96th Journées Luxembourgeoises de Géodynamique, Luxembourg, 24-26 October, 2011.*

2011 Earthquake observation : new opportunities from modern networks. *IPGP, Paris, France, 18 January, 2011.*

Participation à congrès et ateliers internationaux

2012 **C. Satriano**, E. Kiraly, M. Vallée, V. Dionicio, P. Bernard, J.-P. Vilotte. The 2012 Mw 8.6 Sumatra Earthquake : Evidence of Westward Sequential Seismic Ruptures Associated to the Reactivation of a N-S Ocean Fabric. *AGU Fall Meeting, San Francisco, USA, 3-7 December, 2012.*

2012 V. Dionicio, E. Kiraly, **C. Satriano**, P. Bernard, J.-P. Vilotte. Broadband characterization of the 2010 Mw 8.8 Maule earthquake. *AGU Fall Meeting, San Francisco, USA, 3-7 December, 2012.*

2012 N. Poiata, **C. Satriano**, J.-P. Vilotte, P. Bernard. Array analysis methods for detection, classification and location of seismic sources : a first evaluation for aftershock analysis using dense temporary post-seismic array network. *AGU Fall Meeting, San Francisco, USA, 3-7 December, 2012.*

2012 V. Dionicio, **C. Satriano**, E. Kiraly, J.-P. Vilotte, P. Bernard. Broadband characterization of large subduction earthquakes through the combination of coherent rupture imaging and kinematic modeling. *EGU General Assembly, Vienna, Austria, 22-27 April, 2012.*

2011 V. Dionicio, **C. Satriano**, J-P. Vilotte, P. Bernard, M. Lancieri. Preliminary analysis of the rupture process of the 11 March 2011 Tohoku-Oki earthquake. *AGU Fall Meeting, San Francisco, USA, 5-9 December, 2011.*

2011 **C. Satriano**, V. Dionicio, J-P. Vilotte, P. Bernard. Using Back Projection to Image Earthquake Source Complexity. *AGU Fall Meeting, San Francisco, USA, 5-9 December, 2011.*

2011 **C. Satriano**, V. Dionicio, J-P. Vilotte, P. Bernard. Multi-scale imaging of the 2011 great Tohoku earthquake using seismic antenna techniques. (Invited talk) *96th Journées Luxembourgeoises de Géodynamique, Luxembourg, 24-26 October, 2011.*

2011 **C. Satriano**, V. Dionicio, J-P. Vilotte, P. Bernard. Source imaging of the great Tohoku earthquake. *Todai Forum, Paris, France, 17-19 October, 2011.*

2011 **C. Satriano**, V. Dionicio, J-P. Vilotte. Using back projection to image earthquake source complexit *International Workshop on Passive Imaging in Wave Physics : from seismology to ultrasound, Cargese, France, 9 - 13 May, 2011.*

2011 **C. Satriano**, V. Dionicio, J-P. Vilotte. Imaging the earthquake rupture from the back projection of body waves. *EGU General Assembly, Vienna, Austria, 2011.*

2010 **C. Satriano**, J.-P. Vilotte, P. Bernard, N.M. Shapiro. Rupture imaging of the 27 February 2010 Mw 8.8 Chilean earthquake from back projection of teleseismic body waves. *AGU Fall Meeting, San Francisco, USA, 13-17 December, 2010.*

2010 T.A. Stabile, **C. Satriano**, A. Orefice, A. Zollo. High-resolution study of a microearthquake sequence in Southern Apennines (Italy). *European Seismological Commission, 32nd General Assembly, Montpellier, France, 6-10 September, 2010.*

2010 M. Caccavale, **C. Satriano**, V. Convertito, M. Di Crosta, A. Emolo, A. Zollo, F. Gallovič. Real-time generation and performance of ShakeMap® with Irpinia Seismic Network (ISNet) in Campania region, southern Italy. *European Seismological Commission, 32nd General Assembly, Montpellier, France, 6-10 September, 2010.*

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