

Janire Prudencio, PhD.

Tenured Assistant Professor

*Departamento Física Teórica y del Cosmos
Facultad de Ciencias-Campus de Fuentenueva
Universidad de Granada
18071, Granada (España)*

Volcano seismology • Seismic tomography • Seismic attenuation • Seismic scattering
Volcanic forecasting • Volcanic Early Warning

General quality indicators of scientific production

Google Scholar 818 citations – 16 H-index – 24 i10-index

Scopus index 640 citations – 16 H-index

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WoS Researcher ID J-2785-2015

SCOPUS Author ID 55926919600

Employment

Teaching Merits (5-year period) = **2** (2009-2014, 2015-2020)

Research Merits (6-year period) = **2** (2010-2015, 2016-2021)

Overall Merits (tramos autonómicos) = **3**

2021/04-present	Tenured Assistant Professor University of Granada (Spain)
2018/11-2021/04	Juan de la Cierva Postdoctoral Researcher University of Granada (Spain)
2016/08 – 2018/07	Postdoctoral scholar University of California, Berkeley (US)
2015/09 – 2016/07	Postdoctoral Research Associate Georgia State University (US)
2015/04 – 2015/08	Postdoctoral Fellow Earthquake Research Institute (Japan)
2014/04 – 2015/03	Postdoctoral Researcher University of Granada (Spain)
2010/01 – 2013/09	PhD Student University of Granada (Spain)

Education

2010/01 - 2013/09	PhD in Earth Sciences University of Granada (Spain)
2008/09 - 2009/12	MSc in Geophysics and Meteorology University of Granada (Spain)
2006/09 - 2008/06	Bachelor in Geology (Honors Degree) University of Granada (Spain)
2003/09 - 2006/06	Bachelor in Geology (General Degree) University of Basque Country (Spain)

Main research skills

My main research is focus in source and structure modelling, obtaining tridimensional structures of volcanoes and geothermal reservoirs through seismic data inversion (tomography); using seismic velocity, attenuation and scattering. In recent years, my research interests have included advanced seismic signal processing and machine learning techniques for seismo-volcanic event recognition, classification and picking; interdisciplinary research and volcanic hazard analysis.

Professional Service

Vice-chair -Horizon EUROPE – MSCA-DN (ENV panel) 2021-2025

Expert -Project Monitoring (ENV Panel) 2023
-Horizon WIDERA – Twinning (ENV panel) 2021, 2023
-Horizon WIDERA – Talents 2024
-Horizon EUROPE – MSCA-SE (ENG panel) 2022
-Horizon EUROPE – MSCA-PF (ENV panel) 2021-2024
-H2020-MSCA-IF (ENV panel) 2016- 2020
-H2020-MSCA-ITN (ENV panel) 2017-2020
-SNSF Swiss Postdoctoral Fellowships (ENV Panel) 2022-2025
-National Center of Science and Technology Evaluation
(Government of Kazakhstan) 2020

Guest Editor -Frontiers in Earth Science
-Geosciences (Volcano Seismology)
-International Journal of Geophysics
-Applied Sciences

Reviewer -Nature Scientific Reports
-Nature communications
-Geophysical Research Letters
-Journal of Geophysical Research
-Geophysical Journal International
-Physics of the Earth and Planetary interiors
-Bulletin of volcanology
-Surveys in Geophysics
-Tectonophysics
-Bull. of Seismological Society of America
-Geothermics
-Annals of Geophysics
-Journal of Applied Geophysics
-International Journal of Geophysics
-Remote Sensing
-Energies
-Geosciences
-J. of South American Earth Sciences
-The Scientific World Journal
-Earth, Planets and Space
-Geoscience and Remote Sensing Letters



Committee participation

PhD	-Manuel Titos Luzón (UGR, Spain)
Committee	-Ferdinando Napoletano (USalerno, Italy) -Chiara Nardoni (URoma Tre, Italy) -Iván Cabrera-Pérez (ULL, Spain) -Donato Talone (UGd'Annunzio, Italy) -Alfio Marco Borzì (UCatania, Italy)
Academic	-GEOREC Master (since 2023)
Committee	-GEOMET Master Secretary (since 2022) -GEOMET Master (since 2019)
Outreach	-Instituto Andaluz de Geofísica-UGR
Committee	(Volcanic Hazard section, since 2019)

Teaching experience

- 2025** **Profesor Titular de Universidad**
Certificate
- 2020** **Profesor Contratado Doctor**
Certificate
- 2020 - present** **Volcano Geophysics** (Master Level)
- 2019 - present** **Responsible of business practices**
(Master Level)
- 2019 - present** **Physics** (Undergraduate Level)
- 2018 - present** **Volcanic Hazards** (Master Level)
- 2018 - present** **Geothermal resources** (Master Level)
(in charge from 21/22)
- 2012 - 2013** **Physics of volcanoes**
(Undergraduate Level)

PhD Students

- 2024-present** **Cinthia Guerrero Reinoso** (PhD, co-advisor)
- 2023-present** **Celeste Novak** (PhD, co-advisor)
- 2021-present** **Pablo Rey** (PhD, co-advisor)
- 2019-present** **Daphne Sagel** (PhD, co-advisor)
- 09/2018-07/2022** **Ignacio Castro** (PhD, co-advisor)
(Graduated July 13th 2022, Sobresaliente)
- Summer 2017** **Roberto Guardo** (visiting PhD student)

Master students

2022-2023	Óscar Gamiz (co-tutor)
2021-2023	Carmen Carvajal (co-tutor)
2021-2023	Aitor Cid
2021-2022	Ángela (co-tutor)
2020-2022	Jorge Cañadas
2020-2021	Cinthya Guerrero
2020-2021	Eva Agut (co-tutor)
2019-2021	Aaron Álvarez (co-tutor)
2019-2020	Laura Schramm (co-tutor)
2019-2020	Pablo Rey (co-tutor)
2018-2019	Ainhoa Monroy (co-tutor)
2017-2018	Ignacio Castro (co-tutor)
2017-2018	Guillermo Diaz (co-tutor)
2014 - 2016	Estefanía Nieto (co-tutor)

Undergraduate students

2021/2022 **Óscar Gámiz Aguilera** (co-tutor)

2021/2022 **Miriam Molina Fernández** (co-tutor)

2020-2021 **Pablo Garrido Grana** (co-tutor)

2020-2021 **Samuel Guerrero Camarero** (co-tutor)

2020-2021 **Clara Sánchez Saucedo** (co-tutor)

Fall 2017 **Irene Liou** (Undergraduate, URAP)
Spring 2018

Spring 2017 **Ismail Sami** (Undergraduate, URAP)

Fellowships/Awards/Grants

2019/11	Young Female Scientist Award Muy Interesante and Odisea
2013/09	PhD Award Basque Government (Spain)
2010/01 - 2013/09	Doctorate Scholarship Award Basque Government (Spain) Ref. BFI09.277
2011/03 - 2011/06	Travel Grant Destination: INGV – Oss. Vesuviano Basque Government (Spain)
2008/09 – 2009/06	Master Scholarship Award Merit scholarship University of Granada
2006/09 - 2007/06	Séneca Fellowship Mobility program between Spanish universities. MICINN (Spain)
2003/09 - 2008/06	University Scholarship Award Full-tuition merit scholarship Basque Government (Spain)

Research Projects

ACTIVE Research Projects

2024/01 – 2026/12	C-EXP-022-UGR23 FUNDED BY: UGR-FEDER PI: Janire Prudencio
2023/09 – 2026/8	PID2022-143083NB-I00 LEARNING FUNDED BY: MICINN PI: Jesús M. Ibáñez, Carmen Benítez
2022/12-2025/12	PLEC2022-009271 DIGIVOLCAN FUNDED BY: MICINN PI: Luca D'Auria
2022/09-2026/08	PID2021-124381NB-C21 FUNDED BY: MICINN PI: Fco. Javier Almendros
2021/09 – 2025/08	MSCA-ITN IMPROVE project FUNDED BY: EU PI: Paolo Papale (INGV, Italy)

PAST Research Projects

FEMALE PID2019-106260GB-I00 FUNDED BY: MICINN PI: Jesús M. Ibáñez, Carmen Benítez
PREVIA Project FUNDED BY: FEDER PI: Jane H. Scarrow
P20_00694 FUNDED BY: FEDER PI: Inmaculada Serrano
PI 40-B-634 3D and 4D Visualisation Tool for Scientific Research and Analysis (UNRN - Carola Dreidemie (URN, Argentina))
TEC2015-68752-R. KNOWAVES (MICINN – Spanish Government, PI: Carmen Benítez Ontuzar, Jesús M. Ibáñez Godoy)
NSF-1521855-HAZARDS SEES (NSF, PI: Greg Valentine)
NSF-1442630. Real-time Ambient Noise Seismic Imaging (NSF CCF-Type II, PI: WenZhan Song)
NSF-1125165. VolcanoSRI: 4D Volcano Tomography (NSF CDI-Type II, PI: WenZhan Song)
UGR-ID15-47. (University of Granada, PI: Inmaculada Serrano)
ENV.2012.6.4-2 EC-FP7 MEDiterranean SUPersite Volcanoes (European Union, PI: Giuseppe Puglisi)
UGR-ID12-47. Virtual platform for Seismic hazard assessment (University of Granada, PI: Inmaculada Serrano)
EUROFLEETS2-SI-005_MED-SUV.ISES (European Union, PI: Jesús Ibáñez Godoy and Giuseppe Puglisi)
COC-DI-2011-08. MEDiterranean SUPersite Volcanoes (MICINN – Spanish Government, PI: Jesús M. Ibáñez Godoy)
CGL2011-29499-C02-01 EPHESTOS (MICINN – Spanish Government, PI: Jesús M. Ibáñez Godoy)
CTM2010-11740-E/ANT Seismo volcanic activity monitoring (MICINN – Spanish Government, PI: Javier Almendros González)
CGL2008-01660 HISS (MICINN – Spanish Government, PI: Jesús M. Ibáñez Godoy)
CGL2008-01830 (MICINN – Spanish Government, PI: José Morales Soto)
UNREST. (DPC - Italian Government, PI: Edoardo Del Pezzo)



Research stays

Visiting Researcher

- 2019/06 BSL – UC Berkeley (US)**
HOST: Michael Manga
FUNDED BY: TEC2015-68752-R.
MICINN - Spanish Government
- 2014/04 – 2014/07 INGV - Sezione di Catania (Italy)**
HOST: Domenico Patané
FUNDED BY: ENV.2012.6.4-2
MEDiterranean SUPersite Volcanoes
- 2013/11 – 2013/12 BSL- UC Berkeley (US)**
HOST: Peggy Hellweg and Taka'aki Taira
FUNDED BY: ENV.2012.6.4-2
MEDiterranean SUPersite Volcanoes
- 2013/10 Institut Für Geophysik (Germany)**
HOST: Luca de Siena
FUNDED BY: CGL2011-29499-C02-01 -
MICINN - Spanish Government

PhD Student internships

- 2013/06 – 2013/07 INGV - Sezione di Catania (Italy)**
HOST: Domenico Patané
FUNDED BY: ENV.2012.6.4-2
MEDiterranean SUPersite Volcanoes
- 2012/06 Institut Für Geophysik (Germany)**
HOST: Luca de Siena
FUNDED BY: CGL2011-29499-C02-01 -
MICINN - Spanish Government
- 2012/01 – 2012/03 Antarctic season 2011-2012 (Antarctica)**
PI: Javier Almendros
FUNDED BY: CTM2010-11740-E/ANT -
MICINN - Spanish Government
- 2011/03 – 2011/06 INGV - Sezione di Napoli - Osservatorio Vesuviano. Naples. Italy**
HOST: Edoardo Del Pezzo
FUNDED BY: Short research stay program
(travel grant) Basque Government
- 2010/11 – 2010/12 INGV - Sezione di Napoli - Osservatorio Vesuviano. Naples. Italy**
HOST: Edoardo Del Pezzo
FUNDED BY: CGL2008-01660 - MICINN -
Spanish Government

List of Publications

- Under Review**
- Sagel, D., **Prudencio, J.**, Del Pezzo, E., Giampiccolo, E., Tuvè, T., Camacho, E., Sanjur, J., Flores, A., Luque, N. and Ibáñez, J. M. Scattering and intrinsic seismic attenuation characteristics of the conjunction of the Coco, Nazca, Caribbean, and Panama Block plates. Under review in *Bulletin of Seismological Society of America*.
 - Grimaldi, S., Cabrera-Pérez, I., Koulakov, I., D'Auria, L., Barberi, G., García-Hernández, R., Martínez Van Dorth, D., Ortega, V., **Prudencio, J.**, Przeor, M. and Ibáñez, J. Seismic Tomography of a Newborn Volcano. Under review in *Nature Communications*.
 - Rey-Devesa, P., Ibáñez, J., Gutiérrez, L., **Prudencio, J.**, Álvarez-Hernández, A., Bretón, M., Arámbula, R., Ortigosa, F., Plasencia, I., D'Auria, L., Pérez, N., Titos, M. and Benítez, C. Characterization of Volcanic Stages using Seismic Features: case of Tajogaite (2013-2022). Under review in *Journal of Volcanology and Geothermal Research*.
 - Tortosa, J., Almendro, A., Carmona, E., Martín, J.B., **Prudencio, J.** et al. Deployment of a dense seismic network on La Palma island (2023-2024) for high-resolution imaging of the velocity structure using passive seismic methods. Under review in *Surveys in Geophysics*.
- 2025**
- (37) Gupta, M. (Ed.) Remote Sensing for Geophysicists. CRC Press, Taylor & Francis Group, Boca Raton, FL, USA. ISBN: 9781032778921, March 2025, 526 pp. <https://doi.org/10.1201/9781003485278>
- 2024**
- (36) Cabrera-Pérez, I., D'Auria, L., Soubestre, J., Del Pezzo, E., **Prudencio, J.**, Ibáñez, J.M., Jiménez-Mejías, M., Padilla, G., Barrancos, J. and Pérez, N. 3-D intrinsic attenuation tomography using ambient seismic noise applied to La Palma Island (Canary Islands). *Sci Rep* 14, 27354 (2024). <https://doi.org/10.1038/s41598-024-79076-w>
- (35) Martínez-Moreno, J., Cannata, A., Di Grazia, G., Sciotto, M. and **Prudencio, J.** Investigating Mt. Etna lava fountains by seismic and infrasonic signals: 14-21 February 2021 case study. DOI: <https://doi.org/10.4401/ag-9053>
- (34) Rey-Devesa, P., Carthy, J., Titos, M., **Prudencio, J.**, Ibáñez, J.M. and Benítez, C. Universal Machine Learning Approach for Volcanic Eruption Forecasting. DOI: doi.org/10.3389/feart.2024.1342468
- (33) Cabrera-Pérez, I., Soubestre, J., D'Auria, L., Przeor, M., García, R., Barrancos, J., Padilla, G., Pérez, N. and **Prudencio, J.** Ambient noise tomography of El Hierro island (Canary Islands). DOI: [10.3389/feart.2023.1326634](https://doi.org/10.3389/feart.2023.1326634)
- 2023**
- (32) Rey-Devesa, P., **Prudencio, J.**, Benítez, C., Bretón, M., Plasencia I., León, Z., Ortigosa, F., Gutiérrez, L., Arámbula-Mendoza, R. & Jesús M. Ibáñez. Tracking Volcanic Explosions using Shannon Entropy at Volcán de Colima. DOI: [10.1038/s41598-023-36964-x](https://doi.org/10.1038/s41598-023-36964-x)
- (31) Rey-Devesa, P., Benítez, C., **Prudencio, J.**, Gutiérrez, L., Cortés-Moreno, G., Titos, M., Koulakov, I., Zuccarello, L. and Ibáñez, J. Volcanic Early Warning Using Shannon Entropy: Multiple Cases of Study. DOI: [10.1029/2023JB026684](https://doi.org/10.1029/2023JB026684)
- (30) Koulakov, I., D'Auria, L., **Prudencio, J.**, Cabrera-Pérez, I., Barrancos, J., Padilla, G.D., Abramnikov, S., Pérez, N.M., Ibáñez, J.M. Local earthquake seismic tomography reveals the link between cristal structure and volcanism in Tenerife (Canary Islands). DOI: [10.1029/2022JB025798](https://doi.org/10.1029/2022JB025798)
- 2022**
- (29) Guardo, R., De Siena, L., **Prudencio, J.** and Ventura, G. Imaging the absorption feeding paths of Deception Island, Antarctica. DOI: [10.1029/2022GL099540](https://doi.org/10.1029/2022GL099540)
- (28) D'Auria, L., Koulakov, I., **Prudencio, J.**, Cabrera-Pérez, I., Ibáñez, J.M., Barrancos, J., García-Hernández, R., Martínez van Dorth, D., Padilla, G., Przeor, M., Ortega, V., Hernández, P., Pérez, N. Rapid magma ascent beneath La Palma revealed by seismic tomography. DOI: [10.1038/s41598-022-21818-9](https://doi.org/10.1038/s41598-022-21818-9).
- (27) Figuerola, B., Valiente, N., Barbosa, A., Brasier, M.J., Colominas-Ciuró, R., Convey, P., Liggett, D., Fernández-Martínez, M.A., Gonzalez, S., Griffiths, H.J., Jawak, S.D., Merican, F., Noll, D., **Prudencio, J.**, Quaglio, F. and Pertierra, L.R. Shifting perspectives in Polar Research: global lessons on the barriers and drivers for securing academic careers in Natural Sciences. DOI: [10.3389/fevo.2021.777009](https://doi.org/10.3389/fevo.2021.777009).
- 2021**
- (26) Castro-Melgar, I., **Prudencio, J.**, Cannata, A., Del Pezzo, E. and Ibáñez, J.M. Small-Scale Volcanic Structures of the Aeolian Volcanic Arc Revealed by Seismic Attenuation DOI: [10.3389/feart.2021.725402](https://doi.org/10.3389/feart.2021.725402).
- (25) Castro-Melgar, I., **Prudencio, J.**, Del Pezzo, E., Giampiccolo, E. and Ibáñez, J.M. Shallow magma storage beneath Mt. Etna: Evidence from new attenuation tomography and existing velocity models. *Journal of Geophysical Research*. DOI: [10.1029/2021JB022094](https://doi.org/10.1029/2021JB022094)

- 2020 (24) Bueno, A., Zuccarello, L., Díaz-Moreno, A., Woolan, J., Titos, M., García, L., Alvarez, I., Prudencio, J., and De Angelis, S., PICOSS: Python Interface for the Classification of Seismic Signals. DOI: 10.1016/j.cageo.2020.104531
- (23) Prudencio, J., and Manga, 3D attenuation structure of Long Valley caldera imaged with the coda normalization method. DOI: 10.1093/gji/ggz543
- (22) Ibáñez, J.M., Castro-Melgar, Cocina, O., Zuccarello, L., Branca, S., Del Pezzo, E. and Prudencio J. First 2D intrinsic and scattering attenuation images of Mt. Etna volcano from active seismic data. DOI: 10.1093/gji/ggz450
- 2018 (21) Prudencio, J., Manga, M. and Taira, T. Subsurface structure of Long Valley caldera imaged with seismic scattering and intrinsic attenuation. *Journal of Geophysical Research: Solid Earth*, DOI: 10.1029/2017JB014986
- 2017 (20) García-Yeguas, A., Sánchez-Alzola, A., De Siena, L., Prudencio, J., Díaz-Moreno, A. and Ibáñez, J.M. Scattering approach from autocorrelation functions of P-wave seismic velocity images: the case of Tenerife Island (Canary Islands, Spain). *Bulletin of Volcanology*, DOI: 10.1007/s00445-018-1205-5
- (19) Díaz-Moreno, A., Barberi, G., Cocina, O., Koulakov, I., Scarfi, L., Zuccarello, L., Prudencio, J., García-Yeguas, A., Álvarez, I., García, L., and Ibáñez, J.M. New insights on Mt. Etna's crust and relationship with the regional tectonic framework on the light of a joint active and passive P-waves seismic tomography. *Surveys in Geophysics*, DOI: 10.1007/s10712-017-9425-3
- (18) García-Yeguas, A., Ledo, J., Piña-Varas, P., Prudencio, J., Ibáñez, J. and Queralt, P. New evidences of joint interpretation of 3D MT and seismic velocity models, Tenerife Island (Spain). *Computer and Geosciences*, DOI: 10.1016/j.cageo.2017.08.003
- (17) Ibáñez, J.M., Díaz-Moreno, A., Prudencio, J., Zandomenighi, D., Wilcock, W., Barclay, A., Almendros, J., Benitez, C., García-Yeguas, A. and Alguacil, G. A multi-parametric geophysical data base at Deception Island (Antarctica) obtained in the TOMO-DEC experiment. *Nature Scientific Data*, DOI: 10.1038/sdata.2017.128
- (16) Prudencio, J., Taira, T., Aoki, Y., Aoyama, H. and Onizawa, S. Intrinsic and scattering attenuation images of Usu volcano, Japan. *Bulletin of Volcanology*, DOI: 10.1007/s00445-017-1117-9
- (15) Prudencio, J., Aoki, Y., Takeo, M., Ibáñez, J. M. and Del Pezzo, E. Separation of scattering and intrinsic attenuation in Asama volcano (Japan): evidences of high volcanic structural contrasts. *Journal of Volcanology and Geothermal Research*, DOI: 10.1016/j.jvolgeores.2017.01.014
- 2016 (14) Ibáñez, J.M., Prudencio, J., Díaz-Moreno, A., Patané, D., Puglisi, G., Luehr, B.G., Carrión, F., Dañobeitia, J.J., Coltelli, M., Bianco, F., Del Pezzo, E., Dahm, T., Willmott, V., and Mazaauric, V. The TOMO-ETNA experiment: an imaging active campaign at Mt. Etna volcano. Context, main objectives, working-plans and involved research projects. *Annals of Geophysics*, DOI: 10.4401/ag-7079
- (13) Ibáñez, J.M., Díaz-Moreno, A., Prudencio, J., Patané, D., Zuccarello, L., Cocina, O., ... and Abramnikov, S. TOMO-ETNA experiment at Etna volcano: activities on land. *Annals of Geophysics*, DOI: 10.4401/ag-7080
- (12) García, L., Álvarez, I., Benitez, C., Titos, M., Bueno, Mota, S., De la Torre, A., Segura, J. C., Alguacil, G., Díaz-Moreno, A., Prudencio, J., García-Yeguas, A., Ibáñez, J.M., Zuccarello, L. Cocina, O. and Pantané, D. Advances on the automatic estimation of the P-Wave onset time. *Annals of Geophysics*, DOI: 10.4401/ag-7087
- (11) Díaz-Moreno, A., Koulakov, I., García-Yeguas, A., Jakolev, A., Barberi, G., Cocina, O., Zuccarello, L., Scarfi, L., Patané, D., Álvarez, I., García, L., Benitez, C., Prudencio, J., and Ibáñez, J.M. PARTOS - Passive and Active Ray TOMography Software: Description and preliminary analysis using TOMO-ETNA experiment's dataset. *Annals of Geophysics*, DOI: 10.4401/ag-7088
- (10) Del Pezzo, E., Ibáñez, J., Prudencio, J., Bianco, F. and De Siena, L. Absorption and Scattering 2D Volcano Images from Numerically Calculated Space-weighting function. *Geophysical Journal International*, DOI: 10.1093/gji/ggw171
- (9) Ledo, J., Queralt, P., Marcuello, A., Garcia-Yeguas, A., Piña-Varas, P., Prudencio, J., Diaz-Moreno, A. and Ibañez, J. M. Fuzzy-logic clustering of 3D magnetotelluric and seismic velocity models: Tenerife island (Spain). SEG International Conference and Exhibition, Barcelona, Spain, 3-6 April 2016: pp. 85-85. DOI: 10.1190/ice2016-6312042.1
- 2015 (8) Díaz-Moreno, A., Ibáñez, J.M., De Angelis, S., García-Yeguas, A., Prudencio, J., Morales, J. and Tuvè, T. Seismic hydraulic fracture migration originated by successive deep magma pulses: The 2011-

2013 unrest of the volcanic island of El Hierro. *Journal of Geophysical Research*, DOI: 10.1002/2015JB012249

(7) **Prudencio, J., Ibáñez J., Del Pezzo, E., Martí, J., García-Yeguas, A. and De Siena, L.** 3D attenuation tomography of the volcanic island of Tenerife (Canary Islands, Spain). *Surveys in Geophysics*, DOI: 10.1007/s10712-015-9333-3.

(6) **Prudencio, J., Del Pezzo, E., Ibáñez, J., Giampiccolo, E. and Patané, D.** 2D attenuation images of Stromboli Island using active data. *Geophysical Research Letters*, DOI: 10.1002/2015GL063293.

(5) **Prudencio, J., De Siena, L., Ibáñez, J., Del Pezzo, E., García-Yeguas, A. and Díaz-Moreno, A.** 3D attenuation structure of Deception Island (Antarctica). *Surveys in Geophysics*, DOI: 10.1007/s10712-015-9322-6.

2014 (4) **Vílchez-González J.M., Prudencio, J., Urbano-Rodríguez, L., Ibáñez, J.M. and Carrillo-Rosúa, F.J.,** Volcanic knowledge of primary school pupils, in *Javier J. Maquillón Sánchez, Andrés Escarbajal Frutos and Rosa Nortes Martínez-Artero (Eds.), pp. 464-477. Murcia, Spain: Editum, ISBN: 978-84-697-1190-3* (in Spanish).

(3) **García-Yeguas, A., Ibáñez, J., Koulakov, I., Jakovlev, A., Romero-Ruiz, M.C. and Prudencio, J.** Seismic Tomography Model Reveals Mantle Magma Sources of Recent Volcanic Activity at El Hierro Island (Canary Islands, Spain). *Geophysical Journal International*, DOI: 10.1093/gji/ggu339.

2013 (2) **Prudencio, J., Del Pezzo, E., García-Yeguas, A. and Ibáñez, J.** Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic Islands, I: model and the case of Tenerife Island. *Geophysical Journal International*, DOI: 10.1093/gji/ggt361.

(1) **Prudencio, J., Ibáñez, J.M., García-Yeguas, A., Del Pezzo, E. and Posadas, A.** Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic Islands, II: Deception Island images. *Geophysical Journal International*, DOI: 10.1093/gji/ggt360.

To be submitted * **Prudencio, J., Castro-Melgar, I., De Angelis, S., Minshul, T., Paulatto, M., and Ibáñez, J.M.** *Attenuation structure of Montserrat volcanic Island: Intrinsic, scattering and Qp models. To be submitted to Frontiers in Earth Science.*

* **Zuccarello, L., García-Yeguas, A., Prudencio, J., Rietbrock, A., Koulakov, I., Benítez, C., Alguacil, G. and Ibáñez, J.M.,** A multi-parametric geophysical data base at Tenerife Island (Canary Islands, Spain) obtained from TOM-TEIDEVS and HISS experiments. *To be submitted to Nature Scientific Data.*

Work in progress * **Taira, T., Prudencio, J., Castro-Melgar, I., Gritto, R. and Ibáñez, J.M.** Attenuation study at Geysers geothermal field

*VT and LP events at Deception Island

*Time evolution of physical parameters to predict volcanic eruptions

Conference Presentations

- 2025** -Álvarez-Hernández, A., D'Auria, L., García-Hernández, R., Martínez Von-Dorth, D., Ortega-Ramos, V., Padilla-Hernández, G., Rey-Devesa, P., Prudencio, J., Titos, M., Ibáñez, J.M., Benítez, C. and Pérez, N. Using Cross-Entropy as a Volcanic Precursor: the case study of the 2021 Tajogaite Eruption (La Palma, Spain). IAVCEI Scientific Assembly, 29 June – 4 July 2025, Geneva (Switzerland).
- Prudencio, J., Almendro, J., Tortosa, J., D'Auria, L., Koulakov, I. Cabrera-Pérez, I. and Ibáñez, J.M. 3D Seismic attenuation structure La Palma (Spain): unraveling the volcanic plumbing system of the Canary Islands. IAVCEI Scientific Assembly, 29 June – 4 July 2025, Geneva (Switzerland).
- 2024** -Rey-Devesa, P., Prudencio, J., Carthy, J., Titos, M., Ibáñez, J.M. and Benítez, C. Volcanic state classification based on seismic features. ESC Meeting, 22-27 September 2024, Corfú (Greece).
- Martínez, V., Prudencio, J., Badi, G., Rey-Devesa, P., García, S., Gutiérrez, L., Carbajal, F., Casas, J.A. and Ibáñez, J.M. Phreatic eruptions modeled through the temporal evolution of seismic parameters. ESC Meeting, 22-27 September 2024, Corfú (Greece).
- Tortosa, J., Carmona, E., Prudencio, J., Martin, B., Rey-Devesa, P., Alguacil, G., Araque, C., Cortés, G., Feriche, M., Morales, J., Moreno, J., Ontiveros-Ortega, A. and Almendros, J. IMAGMASEIS: Investigating the post-eruption structure of Cumbre Vieja volcano on La Palma, Canary Islands, with a large-scale seismological experiment. ESC Meeting, 22-27 September 2024, Corfú (Greece).
- Álvarez, A., D'Auria, L., Benítez, C., Ibáñez, J., Devesa, P., Gutiérrez, L., Prudencio, J. and Pérez, N. Shannon entropy and crossentropy for volcano monitoring in the Canary Islands. ESC Meeting, 22-27 September 2024, Corfú (Greece).
- Rey-Devesa, P., Girona, T., Prudencio, J., Ibáñez, J.M., Benítez, C., 2024. How Is Differential Shannon Entropy Related to Volcanic Processes? SSA Annual Meeting, 29 April – 2 May 2024, Anchorage, Alaska (US).
- Prudencio, J., Rey-Devesa, P., Carthy, J., Titos, M., Benítez, C., D'Auria, L., Ibáñez, J., 2024. Volcanic Eruption Forecasting Using Shannon Entropy: 2021 Tajogaite Eruption (Spain). SSA Annual Meeting, 29 April – 2 May 2024, Anchorage, Alaska (US).
- Cabrera-Pérez, I., D'Auria, L., Soubestre, J., Del Pezzo, E., Prudencio, J., Ibáñez, J.M., Jiménez, M., Padilla, G., Barrancos, J. and Pérez, N., 2024. 3-D Intrinsic Attenuation Tomography of La Palma island (Canary Islands) using Ambient Seismic Noise. EGU General Assembly, 14-19 April 2024, Vienna (Austria).
- Prudencio, J., Díaz-Suárez, E., Cid, A., Dominguez-Cerdeña, I., Cabrera, I., Del Fresno, C. and Ibáñez, J.M., 2024. Seismic attenuation structure of the lower crust upper mantle under El Hierro island (Spain). EGU General Assembly, 14-19 April 2024, Vienna (Austria).
- Rey-Devesa, P., Carthy, J., Titos, M., Prudencio, J., D'Auria, L., Ibáñez, J. and Benítez, C., 2024. Evolution of the Shannon Entropy of 2021 Tajogaite Eruption. Cities on volcanoes 12, 11-17 february 2024, La Antigua (Guatemala).
- Mayorca, L., D'Auria, L., Barrancos, J., Camacho, J., Benítez, C., García, L., Ibáñez, J., Ortega, V., Padilla, G., Pérez, N., Preciado-Garbayo, J., Prudencio, J. and Sánchez, J.L., 2024. The DIGIVOLCAN infrastructure: a tool for automated real-time prediction of eruptions in the Canary Islands. Cities on volcanoes 12, 11-17 february 2024, La Antigua (Guatemala).
- 2023** - Almendros, J., Abella, R., Melcor, I., Cabrera, I., Serrano, I., Morales, J., Carmona, E., Martín-León, R., Tubio, R., Prudencio, J., Moreno, J., Martos, A., Martin-Martínez, B., Seivane, H., Feriche, M., Ontiveros, A. and Moleón, J.A., 2023. Wavefield análisis of volcanic tremor during the 2011 eruption of La Palma, Canary Islands, using multiple seismic arrays. IUGG General Assembly, 11-20 July 2023, Berlin (Germany).
- Cabrera I., Soubestre, J., D'Auria, L., Prudencio, J., García, R., Przeor, M., Barrancos, J., Padilla, G. and Pérez, N.M., 2023. Ambient noise tomography of El Hierro island (Canary Islands). IUGG General Assembly, 11-20 July 2023, Berlin (Germany).
- 2022** - D'Auria, L., Koulakov, I., Prudencio, J., Cabrera-Pérez, I., Ibáñez, J.M., Barrancos, J., García-Hernández, R., Martínez van Dorth, D., Padilla, G., Przeor, M., Ortega, V., Hernández, P., Pérez, N., 2022. Tomographic imaging of the magmatic system feeding the 2021 Cumbre Vieja eruption (La Palma, Canary Islands). EGU General Assembly, 23-27 May 2022, Vienna (Austria).
- 2021** - Castro-Melgar I., Prudencio J., Ibáñez J., Gatsios T. and Parcharidis, 2020. Volcanic pre- unrest inflation precursor using Sentinel 1 conventional DInSAR and MTInSAR: The case of La Palma volcanic island. 8th International Conference on Civil Protection and New Technologies, 24-26 November 2021 (Online).
- 2020** - Prudencio, J., Castro-Melgar, I., Taira, T., Gritto, R. and Ibáñez, J., 2020. Seismic Attenuation Imaging of The Geysers Geothermal Field, USA, AGU Fall Meeting 2020, 1-17 December (Online everywhere)

- Guardo, R., De Siena, L., Caselli, A., Prudencio, J., and Ventura, G., 2020. Space-weighted seismic attenuation multi-frequency tomography at Deception Island volcano (Antartica), EGU General Assembly, 3-8 May, Vienna (Austria).
- Zucarello, L., Benitez, C., Morales, S., Alvarez, I., Garcia, L., Bueno, A., Prudencio, J., Titos, M., De Angelis, S., Diaz-Moreno, A. and Ibáñez, J.M., 2020. Automatic Low Frequency seismicity classification using Machine Learning approach. Conferenza A. Rittman, 12-14 February, Catania (Italy)
- Zucarello, L., Bueno, A., Díaz-Moreno, A., Alvarez, I., De Angelis, S., Prudencio, J., Woollam, J., Ibáñez, J.M. and Benitez, C., 2020. A machine learning framework to produce high-quality seismic data catalogs. Conferenza A. Rittman, 12-14 February, Catania (Italy)
- 2019 - Bueno, A., Zuccarello, L., Diaz-Moreno, A., Woollam, J., Titos, M., Benítez, C., Álvarez, A., Prudencio, J., De Angelis, S. and Ibáñez, J., 2019. PICOSS: Python Interface for the Classification of Seismic Signals. AGU Fall Meeting 2019, 9-13 December, San Francisco (USA).
- Prudencio, J. and Manga, M., 2019. 3D attenuation structure of Long Valley caldera: looking for the driver of the current uplift, EGU General Assembly, 7-12 April, Vienna (Austria).
- Cocina O., Ibáñez, J., Zuccarello, L., Del Pezzo, E., Castro-Melgar, I. and Prudencio J., 2019. 2D and 3D attenuation tomographies at Mt. Etna (Italy), EGU General Assembly, 7-12 April, Vienna (Austria).
- Zuccarello, L., García, L., Álvarez, I., Benítez, C., Titos, M., Bueno, A., Prudencio J. and Ibáñez, J., 2019. Characterization of low frequency seismicity at Etna Volcano during 2010 eruption, using advanced automatic analysis algorithms, EGU General Assembly, 7-12 April, Vienna (Austria).
- García, L., Zuccarello, L., Álvarez, I., Benítez, C., Cuius, A., Titos, M., Bueno, A., Mota, S., Prudencio, J. and Ibáñez, J., 2019. Automatic detection and characterization of low frequency seismicity: Long Period events detection and clusterization into families. An example case for Mt. Etna. EGU General Assembly, 7-12 April, Vienna (Austria).
- García-Yeguas, A., García, L., Mota, S., Prudencio, J., Zuccarello, L., Vázquez M., Ramos, S., Aguilera, D. and Ibáñez J., 2019. How do volcanoes communicate? PIISA Project: approaching research in volcanoes to Secondary School Science Education. EGU General Assembly, 7-12 April, Vienna (Austria).
- 2018 - Prudencio, J. and Manga, M., 2018. 3D Attenuation structure of Long Valley caldera imaged with coda normalization method. Chapman Conference on Merging Geophysical, Petrochronologic, and Modeling Perspectives to Understand Large Silicic Magma Systems, 7-12 January 2018, Quinamavida, Maule Region, (Chile)
- Ledo, Juanjo; García-Yeguas, Araceli; Piña-Varas, Perla; Prudencio, Janire; Queralt, Pilar; Marcuello, Alex; Ibañez, Jesús M.; Benjumea, Beatriz; Sánchez-Alzola, Alberto; Pérez, Nemesio. Imaging Tenerife volcanic island from fuzzy logic clustering of electrical resistivity and seismic velocity 3D models. 20th EGU General Assembly 2018, 4-13 April, Vienna, Austria,
- 2017 - Prudencio, J. and Manga, M., 2017. Subsurface structure of Long Valley caldera imaged with seismic scattering and intrinsic attenuation, IAVCEI 2017 Scientific Assembly, 14-18 August 2017, Portland (Oregon, USA)
- Luehr, B., Ibanez, J.M., Díaz-Moreno, A., Prudencio, J., Patané, D., Koulakov, I., Roessler, D., Cocina, O., Zucarello, L., Zieger, T. and Dahm, T., 2017. TOMO-ETNA Experiment –Etna volcano, Sicily, investigated with active and passive seismic methods), EGU General Assembly, 23-28 April 2017, Vienna (Austria).
- 2016 - Luehr, B., Ibanez, J.M., Díaz-Moreno, A., Prudencio, J., Patané, D., Koulakov, I., Roessler, D., Cocina, O., Zucarello, L., Zieger, T. and Dahm, T., 2016. The TOMO-ETNA Experiment – resolving the crust around Etna volcano, Sicily, with active and passive seismic investigations. Cities on Volcanoes 9, November 20-25, Puerto Varas (Chile).
- Díaz-Moreno, A., García-Yeguas, A., Koulakov, I., Ibáñez, J. M., Prudencio, J. and Patané, D., 2016. High resolution Regional velocity structure around Mt. Etna volcano using Tomo-ETNA seismic data. MED-SUV final Meeting, 5-7 April, Rome (Italy).
- Ibáñez, J. M., Patané, D., Puglisi, G., Luhr, B., Carrión, F., Dañoibeitia, J., Coltelli, M., Prudencio, J., Bianco, F., Del Pezzo, E., Dahm, T., Willmott, V. and Mazauric, V., 2016. The Tomo-Etna experiment. A review of recent results and future perspectives. MED-SUV final Meeting, 5-7 April, Rome (Italy).
- 2015 - Del Pezzo, E., Ibáñez, J. M., Prudencio J. and Bianco, F., 2015. Imaging Earth heterogeneity using scattered waves. 34º Convegno GNGTS, 17-19 November, Trieste (Italy).
- Ibáñez, J. M., Patané, D., Puglisi, G., Luhr, B., Carrión, F., Dañoibeitia, J., Coltelli, M., Prudencio, J., Bianco, F., Del Pezzo, E., Dahm, T., Willmott, V. and Mazauric, V., 2015. The Tomo-Etna seismic experiment. Past, present and future. MED-SUV 2nd year Meeting, 7-9 July, Naples (Italy).

- Díaz-Moreno, A., García-Yeguas, A., Koulakov, I., Ibáñez, J. M., **Prudencio, J.** and Patané, D., 2015. The Mt. Etna and surrounding areas: preliminary P-waves seismic tomography. MED-SUV 2nd year Meeting, 7-9 July, Naples (Italy).
- **Prudencio, J.**, Minoru, T., Aoki, Y. and Ibáñez, J., 2015. 2D and 3D attenuation tomographies in active volcanoes. JpGu Meeting, 24-28 May, Makuhari-Chiba (Japan).
- 2014** - Del Pezzo, E., Bianco, F., **Prudencio, J.** and Ibáñez, J., 2014. Separate intrinsic- and scattering-Q images of volcanoes using scattered waves. A new method applied to Deception Island volcano. 33rd Convegno GNGTS, 25-27 November, Bologna (Italy).
- Ibáñez, J., Patané, D., Coltelli, M., Carrión, F., Bruno, P., Cocina, O., Zuccarello, L., Díaz-Moreno, A., **Prudencio, J.**, Bianco, F., Cavallaro, D., Firetto-Carlino, M., Carmisciano, C., Cocchi, L., D'Anna, G.D., Luhr, B. and TOMO-ETNA working group, 2014. TOMO-ETNA: an active seismic experiment at Etna volcano. 33rd Convegno GNGTS, 25-27 November, Bologna (Italy).
- Cocina, O., Zuccarello, L., Díaz-Moreno, A., **Prudencio, J.**, Cavallaro, D., Firetto-Carlino M., Coltelli, M., Carrión, F., Carmisciano, C., D'Anna, G., Luhr, B., Ibáñez, J., Patané, D. and TOMO-ETNA working group, 2014. TOMO-ETNA: an active seismic experiment at Etna volcano. Conferenza A. Rittman, 29-31 October, Nicolosi (Italy)
- Ledo, J., García-Yeguas, A., Piña-Varas, P., Ibáñez, J., Queralt, P., Marcuello, A., **Prudencio, J.** and Díaz-Moreno, A., 2014. 3D MT and seismic velocity models: Tenerife Island (Spain). 22nd EM Induction Workshop, 24-30 August, Weimar (Germany).
- Ibáñez, J., Patané, D., Carrión, F., Zuccarello, L., **Prudencio, J.**, Cocina, O., Díaz-Moreno, A., Coltelli, M., Urbano, L., Scarfi, L., Bianco, F., García-Yeguas, A., Luhr, B., Cavallaro, D. and Carlino, M., 2014. TOMO-ETNA MED-SUV. ISES an Active Seismic and Passive Seismic Experiment at Mt. Etna Volcano. An Integrated Marine and On-Land Geophysical Survey. MED-SUV 1th year Meeting, 7-9 July, Nicolosi (Italy).
- Urbano, L., **Prudencio, J.**, Ibáñez, J. and Vílchez-González, J.M., 2014. Raising volcanic risk awareness among children at school. MED-SUV 1th year Meeting, 7-9 July, Nicolosi (Italy).
- Vílchez-González, J.M., **Prudencio, J.**, Urbano, L., Ibáñez, J. and Carrillo Rosúa, F.J., 2014. Los Volcanes y sus peligros. Proyecto educativo para Educación Primaria, II Congreso Internacional de Ciencias de la Educación y del Desarrollo, 25-27 June, Granada (Spain).
- Vílchez-González, J.M., **Prudencio, J.**, Urbano, L., Ibáñez, J. and Carrillo Rosúa, F.J., 2014. Volcanic Knowledge of primary school pupils. II International Meeting of Innovation and Research in Early Childhood and Primary education, 14-16 May, Murcia (Spain).
- **Prudencio, J.**, Taira, T., De Siena, L., Onizawa, S., Ibáñez, J., Hellweg, M., Del Pezzo, E., Aoyama, H., García-Yeguas, A., Oshima, H. and Díaz-Moreno, A., 2014. First attenuation study at Usu volcano (Hokkaido, Japan), EGU General Assembly, 27 April – 2 May, Vienna (Austria).
- García-Yeguas, A., Del Pezzo, E., **Prudencio, J.**, Ibáñez, J. and De Siena, L., 2014. P-wave scattering attenuation images of Tenerife island using Autocorrelation Functions from velocity seismic tomography fluctuations, EGU General Assembly, 27 April – 2 May, Vienna (Austria).
- Díaz-Moreno, A., García-Yeguas, A., De Angelis, S., **Prudencio, J.**, Ibáñez, J., Morales, J. and Koulakov, I., 2014. Relative and probabilistic non linear relocation of the seismicity of El Hierro (Canary Islands, Spain): Implications for the 2011-2012 eruption, EGU General Assembly 2014, 27 April – 2 May, Vienna (Austria).
- Benítez, C., García, L., Alos, A., **Prudencio J.**, Alvarez, I. and De la Torre, A., 2014. A comparative study of classifiers based on HMM, GMM and SVM for the VT, LP and Noises discrimination task, EGU General Assembly 2014, 27 April – 2 May, Vienna (Austria).
- Ibáñez, J., Patané, D., Puglisi, G., Zuccarello, L., Bianco, F., Luhr, B., Díaz-Moreno, A., **Prudencio, J.**, Koulakov, I., Del Pezzo, E., Cocina, O., Coltelli, M., Scarfi, L., De Gori, P. and Carrión, F., 2014. TOMO-ETNA MED-SUV. ISES an active seismic and passive seismic experiment at Mt. Etna volcano. An integrated marine and on land geophysical survey, EGU General Assembly 2014, 27 April – 2 May, Vienna (Austria).
- 2013** - **Prudencio, J.**, De Siena, L., Ibáñez, J. and Del Pezzo, E., 2013. From 2D to 3D attenuation tomography in Deception Island (Antarctica), AGU Fall Meeting 2013, 9-13 December, San Francisco (USA).
- **Prudencio, J.**, Ibáñez, J., De Siena, L. and Del Pezzo, E., 2013. 3D attenuation structure of Deception Island (Antarctica), EGU General Assembly 2013, 5 - 12 April, Vienna (Austria).
- **Prudencio, J.**, Del Pezzo, E., De Siena, L. and Ibáñez, J., 2013. 3D attenuation structure at Tenerife Island (Canary Islands, Spain), EGU General Assembly 2013, 5 - 12 April, Vienna (Austria).



- **Prudencio, J., Ibáñez, J., García-Yeguas, A. and Del Pezzo, E., 2013.** 2D Intrinsic And Scattering Attenuation Tomography Of Tenerife And Deception Island (Antarctica) From Active Seismic Experiments, EGU General Assembly 2013, 5 - 12 April, Vienna (Austria).
- 2012** - **Prudencio, J., Ibáñez, J., García-Yeguas, A. and Del Pezzo, E., 2012.** 2D intrinsic and scattering attenuation tomography of Tenerife and Deception Island (Antarctica) from active seismic experiments, MAKAVOL 2012 EL HIERRO, 10-15 October, El Hierro (Canary Islands, Spain).
 - **Carrión, F., Díaz-Moreno, A., Martín, J.B., Moreno, J., Prudencio, J., García-Yeguas, A., Ibáñez, J., Barrancos, J., Pérez, N., Barros, I., Bandomo, Z. and Gonçalves, A., 2012,** The New seismic network for seismo-volcanic monitoring of Fogo Island (Cape Verde): Evidences of seismically active volcano, MAKAVOL 2012 EL HIERRO, 10-15 October, El Hierro (Canary Islands, Spain).
- 2011** - **Prudencio J., Del Pezzo E., García-Yeguas A. and Ibáñez J.M., 2011.** Intrinsic and scattering attenuation image of Teide volcanic complex from an active seismic experiment, EGU General Assembly 2011, 3 - 8 April, Vienna (Austria).
- 2010** - **Prudencio J., García-Yeguas A., Ibáñez J.M., Alguacil G., 2010.** Initial results of seismic attenuation for P-waves on Tenerife Island (Canary Islands, Spain), Cities on Volcanoes 6, May 31 - June 4, Tenerife (Spain).

Invited Talks/Seminars

- 2019** **University of Basque Country** *"From Japan to Antarctica studying active volcanoes"*
- 2017** **USGS - Menlo Park (US)** *"Subsurface structure of volcanic systems imaged with seismic attenuation"*
- 2016** **Lawrence Berkeley National Lab (US)** *"Seismic Attenuation tomographies of Active volcanoes"*
University of California at Berkeley (US) *"2D and 3D Seismic Attenuation Tomographies in Active Volcanoes"*
- 2015** **Georgia Institute of Technology (US)** *"2D and 3D Seismic Attenuation Tomographies in Active Volcanoes"*
Earthquake Research Institute, University of Tokyo (Japan) *" Seismic attenuation tomographies at Asama volcano"*
Volcano Research Center, University of Tokyo (Japan) *"2D and 3D seismic attenuation tomographies in active volcanoes"*
- 2014** **University of Granada (Spain)** *"TOMO ETNA experiment: an imaging active campaign at Mt. Etna volcano"*
- 2013** **University of Granada (Spain)** *"Attenuation studies in volcanic Regions"*
- 2012** **Institute für Geophysik, University of Munster (Germany)** *"Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic islands: the cases of Tenerife and Deception Islands"*
- 2011** **University of Granada (Spain)** *"Seismic attenuation in Tenerife (Canary Islands) and Deception Island (Antarctica)"*

Outreach

- 2024** **Science Week 2024.** Invited speaker during the science week of Andalucía at University of Granada.
"Studying active volcanoes" La Asunción School (Granada, Spain) – 23/04/24
The science behind the 3 little pigs: seismology and seismic engineering" Alfaguarilla School (Alfacar, Spain) – 18/03/24
"Studying active volcanoes" CEIP Gómez Moreno (Granada, Spain) – 23/02/24
"Studying active volcanoes" Arantza School (Navarra, Spain) – 31/01/2024
- 2023** **"IkastetxeakBelodromoan: the chance of travel to prehistoric times and to learn more about volcanoes"** Festival de San Sebastián (Donostia, Spain) – 22/09/2023
"Let's talk about volcanoes and other ways to disseminate Earth Sciences" Instituto Milenio de Investigación en Riesgo Volcánico (Chile) – 30/08/23
"From the Earth to the moon: women astronauts and geologist" Alfaguarilla School (Alfacar, Spain) – 16/05/23
Cinema and science. Fire of love documentary film presentation for schools at Tabakalera, UPV/EHU 27/02/23
Cinema and science. Fire of love documentary film presentation at Mitxelena Auditorium, Bizkaia Aretoa UPV/EHU 25/02/23
ConCiencia scientific activities. Talk "Journey to the center of the Earth" at CEIP Fuentenueva School (Granada, Spain) 26/01/23
ConCiencia scientific activities. Talk "Earthquake: how the ground shakes" at CEIP Fuentenueva School (Granada, Spain) 25/01/23
- 2022** **Science week 2022.** Invited speaker during the science week of Andalucía at University of Granada.
Jornadas Geología para poetas, miopes y despistados. Invited speaker to talk about volcano monitoring and La Palma eruption – 17-18/10/22
"Could the eruption of La Palma be predicted? Knowns and unknowns" Aula Científica 2022 – Facultad de Ciencias, Universidad de Granada – 6 y 20/05/22
"Volcanic eruption at La Palma" IES Padre Manjón (Granada, Spain) – 1/04/22
International Day of Women and Girls in Science. Invited speaker at CEIP El Torreón school to talk about Volcano monitoring and La Palma Eruption (Las Gabias, Granada) – 23/02/22
ConCiencia scientific activities. Talk "Studying active volcanoes" at CEIP Fuentenueva School (Granada, Spain) 21/02/22
ConCiencia scientific activities. Talk "Volcanoes" at CEIP Fuentenueva School (Granada, Spain) 18/02/22
International Day of Women and Girls in Science. Invited speaker at María Negrera school to talk about Volcano monitoring and La Palma Eruption – 17/02/22
International Day of Women and Girls in Science. Invited by the city council of Segorbe to give a conference about Volcanoes and Society to general public (Segorbe, Castellón) – 15/02/22
International Day of Women and Girls in Science. Invited by the city council of Segorbe to talk about volcanoes at La Milagrosa School, Menor Diocesano School and CEIP Pintor Camarón (Segorbe, Castellón) – 15/02/22
International Day of Women and Girls in Science. Invited speaker at CEIP Alfaguarilla school to talk about La Palma Eruption (Alfacar, Granada) – 10/02/22
- 2021** **"Studying active volcanoes"** San Juan de Dios School (Granada, Spain) – 22/11/21
Science week 2021. Invited speaker during the science week of Andalucía at University of Granada.
"Studying active volcanoes" San Juan de Dios School (Granada, Spain) – 25/10/21
Girls4STEM Professional Talk – Organized by Girls4STEM Valencia 21/10/21
"Studying active volcanoes" San Juan de Dios School (Granada, Spain) – 18/10/21
International Day of Women and Girls in Science. Invited speaker at María Negrera school to talk about volcanoes and my scientific career (Granada, Spain). – 25/02/21
International Day of Women and Girls in Science. Invited speaker at Alfaguarilla school to talk about recent earthquakes in Granada and my scientific career (Alfacar, Spain). – 11/02/21
- 2020** **Science week 2020.** "BIO Hespérides" CEIP San Miguel (Almuñecar, Spain) – 10/11/2020
Science week 2020. Invited speaker during the science week of Andalucía at University of Granada.
"How to become a volcanologist" La Asunción School (Granada, Spain) – 13/03/20

- "Studying active volcanoes"** La Asunción School (Granada, Spain) – 24/02/20
International Day of Women and Girls in Science. Invited speaker at Ave María Casa Madre school to talk about volcanoes and my scientific career (Granada, Spain) – 18/02/20
International Day of Women and Girls in Science. Invited speaker at Alfaguarilla school to talk about volcanoes and my scientific career (Alfacar, Spain). – 17/02/20
"Studying active volcanoes" Nuestra Señora de las Mercedes School (Granada, Spain) – 10/02/20
2019 "Volcanic Risk management" Geography students (University of Sevilla, Spain) – 25/11/19
Science week 2019. Invited speaker during the science week of Andalucía at University of Granada.
"Studying active volcanoes" Duarte High School (Granada, Spain) – 12/11/19
"Studying active volcanoes" CEIP Ave María San Isidro School (Granada, Spain) – 19/10/19
"Studying active volcanoes" La Madraza School (Granada, Spain) – 18/10/19
Since 2019 Outreach committee. Instituto Andaluz de Geofísica, University of Granada
2018 Science week 2018. Invited speaker during the science week of Andalucía at University of Granada.
2016-2018 "All about Volcanoes!" Team leader of the educational volunteering program for 2nd grade students. BASIS-CRS program
2014 "How to become a volcanologist" program Team leader of the educational program for 11-12-year students. MED-SUV European project outreach activities
"Volcano-Seismology: listening volcanoes" EU Commission Researcher's night Program, Scientific collaborator
"Studying active volcanoes" EU Commission Researcher's night Program, Invited researcher & co-author at University of Cádiz (Spain)
2013 "From Trapagaran to Antarctica" Itxaropena Ikastola School (Trapagaran, Spain) – 3/5/13
"From Trapagaran to Antarctica" AVIFES Association (Santurtzi, Spain) – 3/5/13
2012 "Living near volcanoes" I.E.S Padre Manjón High School (Granada, Spain) – 29/11/12
2011-2012 "Una científica vasca en la Antártida" outreach blog managed by El Correo

Fieldwork/Seismic experiments

- 2024** Maintenance and deployment of seismic stations. La Palma, Spain (15-29 October 2024)
- Maintenance and deployment of seismic stations. La Palma, Spain (13 June – 4 July 2024)
- Maintenance and deployment of seismic stations. La Palma, Spain (11-19 January 2024)
- 2022** Maintenance of seismic stations. Colima volcano, Mexico (May 8 – May 17 2021)
- 2021** Maintenance of seismic stations. La Palma island, Spain (November 29 - December 3 2021)
- Maintenance of seismic stations. La Palma, Spain (November 12-15 2021)
- Seismic array deployment. La Palma, Spain (October 8-11 2021)
- 2016** Maintenance of seismic network. Long Valley caldera, US (August 8-12 2016)
- 2015** Maintenance of seismic stations. Asama volcano, Japan (May, 14 2015)
- 2014** TOMO-ETNA active seismic experiment. **Operation coordinator** Mt. Etna, Italy (June 25-July 20 2014)
- Site location, MED-SUV project. Mt. Etna, Italy (April 22-May 9 2014)
- 2013** Site location, MED-SUV project. Mt. Etna, Italy (June 5, 7, 11, 14, 25, 26 2013)
- 2012** Seismic risk mitigation Fieldwork. El Hierro island, Spain (October 1-30 2012)
- Seismic noise measurements, EPHESTOS project. Tenerife island, Spain (July 11-27 2012)
- Seismic noise measurements, EPHESTOS project. Tenerifeisland, Spain (May 10-18 2012)
- Seismic station deployment, EPHESTOS project. Tenerife island, Spain (April 23-27 2012)
- 2011** Maintenance of seismic stations. Mt. Etna, Italy (November 15-17 2011)
- Seismic station deployment. Mt. Etna, Italy (September 5-16 2011)
- Maintenance of seismic stations. Vesuvius, Italy (June 21 2011)
- Maintenance of seismic stations. Mt. Etna, Italy (June 4-18 2011)
- Maintenance of seismic stations. Mt. Etna, Italy (May 3-11 2011)
- Maintenance of seismic stations. Vesuvius, Italy (March 16-18 2011)
- Seismic noise measurements, HISS project. Tenerife island, Spain (February 7-16 2011)
- Maintenance of seismic stations. Campi Flegrei, Italy (January 17-16 2011)
- Seismic station deployment. Vesuvius, Italy (April 12-21 2011)
- 2010** Maintenance of seismic stations. Vesuvius, Italy (February 8-19 2010)
- Seismic noise measurements. Málaga, Spain (May 28-30 2010)
- 2009** Maintenance of the Accelerometer network. Granada, Spain (April 30 2009)

Language Skills

Spanish	Mother tongue
Basque	Mother tongue
English	O=F, R=F, W=F
Italian	O=I, R=I, W=L
French	O=L, R=L, W=L

**O (oral), R (reading), W (writing) – L (low), I (Intermediate), F (Fluent)