

Part A. PERSONAL INFORMATION

CV date	Mar-2020
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First and Family name	JANIRE PRUDENCIO		
Social Security, Passport, ID number		Age	
Researcher codes	WoS Researcher ID (*)	J-2785-2015	
	SCOPUS Author ID(*)	55926919600	
	Open Researcher and Contributor ID (ORCID) **	0000-0003-1755-3771	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	University of Granada		
Department	Física Teórica y del Cosmos – Área Física de la Tierra		
Address and Country	18071, Granada (Spain)		
Phone number	E-mail	janire@ugr.es	
Current position	Investigador JdC-incorporación	From	01/11/2018
Key words	Volcanology; Seismology; Geophysics		

A.2. Education

PhD	University	Year
PhD in Earth Science	University of Granada	2013

A.3. JCR articles, h Index, thesis supervised...

Undergraduate and Graduate students

1 PhD visiting student tutored
4 Master students co-advised
2 undergraduate students mentored

Peer review journals = 24 publications

9 research-papers as first author
15 research-papers co-authored

Citations and H-index:

- Google Scholar
 - Citations: 281 (total) 241 (since 2014)
 - h-index: 12 (total) 12 (since 2014)
 - i10-index: 12 (total) 12 (since 2014)
- Scopus index
 - h-index: 11
 - Total citations: 228
- ResearchGate
 - RG Score 22.6

Part B. CV SUMMARY (max. 3500 characters, including spaces)

My name is Janire Prudencio, I'm a volcano seismologist and currently a postdoctoral Juan de la Cierva-incorporación scholar at University of Granada.

My scientific career has been focused in volcano seismology, mainly in 2D and 3D attenuation tomographies of active volcanoes, but also in active and passive seismic velocity tomographies and seismic signal recognition and picking algorithm improvement. I have been involved in many scientific projects with more than 20 international researchers but I'm also comfortable conducting independent research, and gained valuable time management skills during my PhD.

I have published 9 research-papers in high-impact journals as first author and co-authored 15 research-papers. I have made more than 40 conference presentation in the most relevant conferences such as AGU, EGU and IAVCEI meetings.



I'm involved in teaching undergraduate and graduate courses. I have co-advised 4 master students, tutored a visiting PhD student and mentored two undergraduate students through URAP program at UC Berkeley.

Aside from teaching activities I have been involved in outreach activities since 2014 summer, when I was the responsible of an educational program of volcanic phenomena for 11-12 year old pupils. During my postdoctoral appointment at UC Berkeley I was the team leader of an educational volunteering program for 2nd grade students called "All about volcanoes". One of my primary goals aside continue doing outreach activities at schools is to create awareness within the general public about volcanic phenomena.

I have participated in more than 20 field campaigns on Mt. Etna, Vesuvius, Campi Flegrei, Asama volcano, Tenerife and El Hierro islands, including the seismo-volcanic monitoring at Deception Island in Antarctica for 3 months. During TOMO-ETNA active seismic experiment developed at Mt. Etna between June-July 2014 I was the operation co-ordinator, proving that I'm able to manage successfully research groups with more than 20 people involved.

Part C. RELEVANT MERITS

C.1. Publications (including books)

- (24) Bueno, A., Ibáñez, J., Zuccarelo, L., Díaz-Moreno, A., Woolan, J., Titos, M., Alvarez, I., Benitez, C., Prudencio, J., and De Angelis, S., PICOSS: Python Interface for the Classification of Seismic Signals. Accepted in *Seismological Research Letters*
- (23) Ibáñez, J.M., Castro-Melgar, 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. *Geophysical Journal International* 220 (1), 267-277
- (22) Prudencio, J., and Manga, 3D attenuation structure of Long Valley caldera imaged with the coda normalization method. *Geophysical Journal International* 220 (3), 1677-1686
- (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
- (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., 2017 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., 2017. 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
- (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 Mazauric, V., 2016. 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 Abramenkov, S., 2016. TOMO-ETNA experiment at Etna volcano: activities on land. *Annals of Geophysics*, DOI: 10.4401/ag-7080
- (12) Garcia, 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., 2016. 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., 2016. 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 Ibáñez, J. M., 2016. 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
- (8) Díaz-Moreno, A., Ibáñez, J.M., De Angelis, S., García-Yeguas, A., Prudencio, J., Morales, J. and Tuvè, T., 2015. 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., 2015. 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. 2015. 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., 2015. 3D attenuation structure of Deception Island (Antarctica). *Surveys in Geophysics*, DOI: 10.1007/s10712-015-9322-6.
- (4) Vílchez-González J.M., Prudencio, J., Urbano-Rodríguez, L., Ibáñez, J.M. and Carrillo-Rosúa, F.J., 2014. 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., 2014. 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.
- (2) Prudencio, J., Del Pezzo, E., García-Yeguas, A. and Ibáñez, J., 2013. 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., 2013. Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic Islands, II: Deception Island images. *Geophysical Journal International*, DOI: 10.1093/gji/ggt360.

C.2. Research projects and grants

ACTIVE Research Projects

- TEC2015-68752-R. **KNOWAVES** (2016/03-2020/02)
FUNDED BY: MINECO/FEDER (Spain)
PI: Carmen Benítez Ontuzar, Jesús M. Ibáñez Godoy
- 1521855-**HAZARDS SEES** (2015/09-2018/08)
FUNDED BY: NSF
PI: Greg Valentine
- **UGR-ID15-47** (2015/09-2017/08)
FUNDED BY: University of Granada
PI: Inmaculada Serrano



- **PI 40-B-634.** 3D and 4D Visualisation Tool for Scientific Research and Analysis (2018/01-2020/12)
FUNDED BY: UNRN
PI: Carola Dreidemie

PAST Research Projects

- 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)
- 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)

C.3. Contracts

C.4. Patents

C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)

EU evaluation

- H2020-MSCA-IF (ENV panel) 2016, 2017, 2018, 2019
- H2020-MSCA-ITN (ENV panel) 2017, 2018, 2019, 2020

Guest Editor

- Geosciences (Volcano Seismology)
- International Journal of Geophysics

Reviewer

- Nature Scientific Reports
- Geophysical Research Letters
- Geophysical Journal International
- Surveys in Geophysics
- Tectonophysics
- Bull. of Seismological Society of America
- Annals of Geophysics
- Journal of Applied Geophysics
- International Journal of Geophysics
- Geosciences
- The Scientific World Journal
- Earth, Planets and Space