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Contracted Researcher

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I started my scientific career as a laboratory assistant in 2001 with a research grant at the Institute of Earth Sciences Jaume Almera (ICTJA) of the Spanish National Research Council (CSIC), Barcelona (Spain). I have obtained 4 fellowships (1 undergraduate, 1 graduate and 4 post -doctoral) to conduct my research at four different centres: University of Barcelona- UB , ICTJA, International Center of Numerical Methods for Engineering – CIMNE, and the University of Bristol (UK). In 2002, I obtained a BA in Geology from the UB with an Honours Degree Award, and in 2007 I finished my PhD in Earth Sciences at the ICTJA. Additionally, in 2008, I completed the Master Course in Numerical Methods in Engineering offered by the International Center for Numerical Methods in Engineering (CIMNE) (<http://www.cimne.com>).

I am author of 38 peer-reviewed publications in international scientific journals that have collected over 380 citations (h -index=12, source: Scopus). I have also co-authored two book chapters and presented over 50 contributions to international conferences including 5 invited talks. I have participated in several research projects (4 European and 12 Spanish ones) and acted as Principal Investigator of four Spanish national projects. Currently, I am the Spanish representative of the volcanology section in the EPOS European project (*European Plate Observing System*, <https://www.epos-ip.org/>).

I have been Secretary General of the Union Commission on Data and Information (UCDI) of the International Union of Geodesy and Geophysics – IUGG (2008-2015), Deputy Secretary of the International Association of Volcanology and Chemistry of the Earth 's Interior- IAVCEI (2007-2015) and commissioner of the IAVCEI Commission on Collapse Calderas (2008-2012). I have co-organized in several occasions the International Course and Workshop on Collapse Calderas of IAVCEI and co-organized and convened sessions at the EGU General Assembly (2012-2016), AGU Fall Meeting (2012), IAVCEI Scientific Assembly (2013) and IUGG General Assembly (2011,2015).

My areas of expertise involve different aspects of active volcanism. I have worked on experimental and numerical modelling of volcanic processes and database management and statistical modelling (e.g. Barde-Cabusson et al., 2014; Geyer and Martí 2009; Kinvig et al., 2009; Martí and Geyer, 2009; Martí et al., 2013a; Martí et al., 2013b; Pedrazzi et al., 2013; Sobradelo et al., 2010). Additionally, I have experience on hazard assessment in active volcanic areas, including Canary Islands and Deception Island in Antarctica (e.g. Bartolini et al., 2014; Geyer et al., 2016; Martí et al., 2008a; Martí et al., 2008b; Pedrazzi et al., 2014).

My interest in Antarctic volcanism dates back to my days as undergraduate student when I carried out a research work on the chemical and physical characterization of

tephra layers on ice drill data from Livingston Island (Antarctica) (Geyer et al., 2008). Later, as a post-doctoral researcher, I participated in the two-year Spanish research project RECALDEC (2010-2011) aimed at understanding the structure and volcanic evolution of Deception Island caldera (Antarctica) (Martí et al., 2013a). Based on the field observations and results obtained during the Antarctic Campaign carried out in the framework of the RECALDEC project, I successfully submitted and coordinated the two-year Spanish project PEVOLDEC (2012-2013) focused on evaluating volcanic hazard on the island (Bartolini et al., 2014; Pedrazzi et al., 2014). In the last two years, I have also become interested on the interaction of volcanoes with the atmosphere and climate, especially on the volcanic signal of large Southern Hemisphere volcanoes. For developing this research, I have been recently awarded with a two-year Spanish project VOLCLIMA (“Volcanoes and climate: reevaluating their short- and long-term interaction”, 2016-2017). More information regarding publications, projects and research interests can be found in my personal webpage: <https://adelinageyer.wordpress.com/>.

Relevant cited references:

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