

ELISABETH GALLANT, PhD

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UPCOMING APPOINTMENT

NSF EAR Postdoctoral Research Fellow

Hawaiian Volcano Observatory

June, 2021 - June 2023

Project: Closing the gap between **analogue studies and numerical lava flow models** using insights from the 2018 Kīlauea eruption [[link](#)]

CURRENT APPOINTMENT

Research Associate, Department of Geography

University of Cambridge

March, 2020 - May, 2021

Volcanic hazard modeler (**lava flows**, vent opening, **lahars**, **pyroclastic currents**, and tephra dispersal) on the European Research Council Starting Grant IMAGINE: Geographical Imaginations and the (geo) politics of volcanic risk: cultures, knowledges, and actions (PI Amy Donovan)

EDUCATION

PhD, MS, BA, BS

PhD (Geology) | University of South Florida: Tampa, FL | summa cum laude | **2019**

Dissertation: **Modeling and Assessing Lava Flow Hazards**

Advisors: Charles Connor and Timothy Dixon

Committee Members: Paul Wetmore, Sylvain Charbonnier, and Peter LaFemina

MS (Geology) | University of South Florida | summa cum laude | **2016**

Thesis: **Lava Flow Hazard Assessment** for the Idaho National Laboratory, Idaho Falls, and Pocatello, Idaho, USA)

Advisor: Charles Connor

BA (Geology) University of New York at Buffalo College | magna cum laude | **2012**

Honors Thesis: Understanding the Eruptive History of Vulcan Santa Ana (Ilamatepec), El Salvador

Advisor: Bettina Martinez-Hackert

BS (Electronic Media, Arts, and Communications) | Rensselaer Polytechnic Institute | cum laude | **2009**

ADDITIONAL PROFESSIONAL APPOINTMENTS

2018 - Pres. Volcanic Hazard Assessment Professional **Consultant**

2019 Adjunct **Faculty** | University of South Florida (Tampa, FL)

2015 - 2019 Undergraduate **Field Camp Coordinator** | University of South Florida (Tampa, FL)

2013 - 2018 Graduate Teaching Assistant | University of South Florida (Tampa, FL)

2012 - 2013 Intern | Hawaiian Volcano Observatory (Volcano, HI)

2009 - 2011 Graphic Designer and **Project Manager** | Clinical Support Services (Buffalo, NY)

2008 - 2009 Web Content Manager | GlobalSpec (Troy, NY)

2006 - 2007 Executive Assistant | Tyree Environmental Remediation (Albany, NY)

GRANTS, HONORS & AWARDS

\$210,000 USD total

2020 — Presidential Citation, AGU. Awarded to diverse authorship team of **Call for a Robust Anti-Racism Plan for The Geosciences**, a petition that has garnered over 25,000 signatures.

PI on NSF EAR-PF: **Closing the gap between analogue studies and numerical lava flow models using insights from the 2018 Kīlauea eruption** (\$174,000)

NSF IUSE: GeoPAtHs: GP-GO, GeoScientists **Promoting Accessible Collaborative Experiences in the field** | Listed Collaborator – allocated \$8,000 of \$437,000 budget)

GRANTS, HONORS & AWARDS *(continued)*

- 2020 — USGS | Support for **ground penetrating radar, drone, magnetic surveys** in Hawai'i (\$8,000)
NASA Goddard Instrument Field Team | Travel assistance for Iceland deployment (\$7,000)
- 2019 — University of South Florida | Fred L. and Helen M. Tharp Fellowship (\$600)
- 2018 — University of South Florida Dept of Geosciences & Libraries | Publication Funding (\$2,500)
University of South Florida | Geology Graduate Student Whiskey Award (\$50)
- 2017 — American Geophysical Union | Outstanding Student Paper Award (**AGU OSPA**) (\$250)
- 2016 — University of South Florida | Graduate Student Outstanding Research Presentation (\$500)
American Geophysical Union | Outstanding Student Paper (**AGU OSPA**) (\$250)
- 2015 — University of South Florida | Presentation Travel Grant (\$500)
SUNY College at Buffalo State Earth Sciences | **Award for Academic Excellence** (\$500)
- 2012 — Council on Undergraduate Research | Posters on Capitol Hill (\$750)
SUNY Buffalo State | **Undergraduate Summer Research Fellowship** (\$4,250)
- 2011 — SUNY Buffalo State Earth Sciences | Departmental **Award for Field Work** (\$250)
SUNY College at Buffalo State | Small Grants Program (\$1,00)
- 2010 — SUNY College at Buffalo State | Small Grants Program (\$400)
- 2008 — Psi Upsilon | R. Timothy Leedy, Phi '57 Award (\$2,000 x 2)
- 2005 — Rensselaer Polytechnic Institute | Emily Roebling Scholarship (\$5,000)

PUBLICATIONS

10. **Gallant, E.**, Connor, C., Wetmore, P., Molisee, D., Morin, J., Walshe, R., and Donovan, A., Modeling eruptive events in distributed volcanic fields (**submitted**) [[link](#)]
9. Ali, H., Sheffield, S., Bauer, J., Caballero-Gill, R., Gasparini, N., Libarkin, J., Gonzales, K., Willenbring, J., Amir-Lin, E., Cisneros, J., Desai, D., Erwin, M., **Gallant, E.**, Gomez, K., Keisling, B., Mahon, R., Marín-Spiotta, E., Schneider, B., Welcome, L., A Twenty-Point Action Plan for Anti-Racism in 2020 (**in review**) [[link](#)]
8. Germa, A., Koebli, D., Wetmore, P., Arias, A., Savov, I., Diez, M., Greaves, V., and **Gallant, E.**, (2020) Petrogenesis of the San Rafael subvolcanic field, UT: implication for the in-situ crystallization and segregation of syenite in shallow sills. *Journal of Petrology*. [[link](#)]
7. **Gallant, E.**, Deng, F., Zayac, J., Richardson, J., Connor, C., Saballos, J.A., Guitierrez, C., Myhre, D., Charbonnier, S., Thompson, G., Connor, L., Malservisi, R., LaFemina, P., and Dixon, T., (2020), Deep and rapid thermo-mechanical erosion by a small-volume lava flow: *Earth and Planetary Science Letters*. [[link](#)]
6. Connor, C.B., Connor, L.J., Germa, A., Richardson, J.A., Bebbington, M., **Gallant, E.**, and Saballos, J.A., (2019), How to estimate the probable locations of future volcanic vents using kernel density estimation. *Statistics in Volcanology*. [[link](#)]
5. Deng, F., Rodgers, M., Xie, S., Dixon, T., Charbonnier, S., **Gallant, E.**, López-Velez, C., Ordoñez, M., Malservisi, R., Voss, N., Richardson, J., (2019), High-resolution DEM generation from multiple remote sensing data sources for improved volcano hazard assessment - a case study at Nevado del Ruiz, Colombia. *Remote Sensing of Environment*. [[link](#)]
4. Xie, S., **Gallant, E.**, Wetmore, P., Owen, L., Figueroa, P., Malservisi, R., Rassmussen, C., Dixon, T., (2019), A new geological slip rate estimate for the Calico Fault, eastern California: Implications for geodetic versus geologic rate estimates in the Eastern California Shear Zone: *International Geology Review*. [[link](#)]
3. **Gallant, E.**, Richardson, J., Connor, C., Wetmore, P., and Connor, L., (2018), A new approach to probabilistic lava flow hazard assessments, applied to the Idaho National Laboratory, eastern Snake River Plain, Idaho, USA: *Geology*. [[link](#)]
2. Richardson, J., Connor, C., Wetmore, P., Connor, L. **Gallant, E.** (2015) Role of sills in the development of volcanic fields: Insights from lidar mapping surveys of the San Rafael Swell, Utah: *Geology*. [[link](#)]
1. George, O., McIlrath, J., Farrell, A., **Gallant, E.**, Tavarez, S., Marshall, A., McNiff, C., Njoroge, M., Wilson, J., Connor, C., Connor, L., and Kruse, S. (2015): High-Resolution Ground-Based Magnetic Survey of a Buried Volcano Anomaly B, Amargosa Desert, NV: *Statistics in Volcanology*. [[link](#)]

COMPUTATIONAL PRODUCTS

Paleotopography Reconstruction: Removes the topographic signals associated with channels and levees on conic surfaces. [\[link\]](#)

Event Modeling: Models events from point data in volcanic fields using cluster analysis. [\[link\]](#)

CONFERENCE ORAL PRESENTATIONS

6. **Gallant, E.**, Connor, C., Wetmore, P., Molisee, D., Morin, J., Walshe, R., and Donovan, A., **(2021)** Modeling eruptive events in distributed volcanic fields: Volcanic and Magmatic Studies Group Meeting, UK.

5. **Gallant, E.**, Connor, C., Richardson, J., Wetmore, P., and Connor, L., **(keynote, rescheduled for Fall 2021 due to COVID-19)**, Assessment of Lava Flow Inundation Hazards Associated with the Opening of New Vents: AGU Chapman Conference on Distributed Volcanism, Flagstaff, AZ, USA.

4. **Gallant, E., (2019)**, Diversity and inclusion strategies for undergraduate field camp experiences: Fall Meeting, American Geophysical Union (AGU) - San Francisco, California, USA.

3. **Gallant, E.**, Richardson, J., Connor, C., Wetmore, P., and Connor, L., **(2018)**, A new probabilistic lava flow hazard assessment for the Idaho National Laboratory, eastern Snake River Plain, USA: Cities on Volcanoes - Naples, Italy.

2. **Gallant, E.**, Deng, F., Xie, S., Saballos, J.A., Connor, C., Dixon, T., **(2017)**, Exploring the thermal and mechanical contributions to lava channel erosion on Momotombo, Nicaragua: Fall Meeting, AGU - New Orleans, Louisiana, USA.

1. **Gallant, E.**, Deng, F., Xie, S., Saballos, A., Connor, C., Dixon, T., Myhre, D., **(2017 - invited)**, Using terrestrial radar to explore lava channel erosion on Momotombo, Nicaragua: Fall Meeting, AGU - New Orleans, Louisiana, USA.

additional conference abstracts provided at the end of CV

CLASSROOM TEACHING EXPERIENCE

2020	Volcanology Supervisor (University of Cambridge)
2020	Environmental Processes and Change: The Earth Supervisor (University of Cambridge)
2019	History of Life Instructor of Record (USF)
2019	Structural Geology and Tectonics Instructor of Record (USF)
2017, 2018	Dynamic Earth: Introduction to Earth Sciences Grader (USF)
2017, 2018	Structural Geology and Tectonics Laboratory Instructor (USF)
2015, 2016	Introduction to Geology Laboratory Laboratory Instructor (USF)
2015	Sedimentary Processes Laboratory Instructor (USF)
2014	Geology for Engineers Grader (USF)
2013, 2014	Mineralogy and Petrology Laboratory Instructor (USF)
2011	Introduction to Geology Laboratory Teaching Assistant (SUNY Buffalo State)

FIELD-BASED TEACHING EXPERIENCE

2014-2019	Volcanology, Structure Mapping, Geophysics field camps Idaho, USA (USF)
2018, 2019	Basic Geology of Death Valley California, USA (Lee Academy Secondary School)
2018	Structural Geology and Tectonics of Death Valley California, USA (USF)
2016	Structure and Geomorphology of the Grand Tetons Idaho, USA (USF)
2015	Introduction to Basin-and-Range Structures and Stratigraphy Idaho, USA (USF)
2013, 2014	Mineralogy and Petrology of Appalachia North Carolina, USA (USF)
2013	Geologic Mapping Hawai'i, USA (Center for Study of Active Volcanism)

FIELD METHODS & RESEARCH EXPERIENCE

2019	Disaster risk perception surveying of hurricane evacuees Florida, USA
2019	Lidar, ground penetrating radar , and drone surveys - NASA expedition Bárðarbunga, IS
2018, 2019	Ground penetrating radar survey of cinder cones Craters of the Moon, Idaho , USA
2018	Ground penetrating radar survey of cinder cones Medicine Lake, California, USA
2018	SfM mapping and cosmogenic nuclide sampling Death Valley, California, USA
2018	Stratigraphy of pyroclastic density currents and lahars Martinique
2017, 2018	Gravity and GPS survey of extensional basins Lost River Valley, Idaho , USA
2016	Ground penetrating radar survey of Mazama ignimbrite Crater Lake, Oregon, USA
2015, 2016	Terrestrial radar survey Momotombo, Masaya, San Cristóbal Volcanoes, Nicaragua
2015	Structure-from-Motion mapping and GPS survey Nevado del Ruiz, Colombia
2015	Cosmogenic nuclide age sampling of alluvial fans Calico Fault, California, USA
2015	Surface and Shallow Seismic survey Blackfoot Volcanic Field, Idaho, USA
2014	Field mapping dike and sill networks San Rafael Volcanic Field, Utah, USA
2014	Magnetic survey of buried cinder cones Amargosa Valley, Nevada, USA
2013	Gravity survey Mauna Loa, Hawai'i, USA
2013	¹⁴C and paleomagnetic sampling of Mauna Loa lava flows Hawai'i, USA
2012-2013	Petrologic Mapping Mauna Loa Summit, Hawai'i, USA
2012-2013	Visits to the active lava flow field of Kīlauea for sample collection Hawai'i, USA
2011	Tephrastratigraphy Santa Ana (Ilamatepec), El Salvador

TECHNICAL & COMMUNICATION SKILLS

Technical	MatLab and familiarity with: Python, Perl, Bash/C shell, and R
Software	GIS Software (QGIS, ArcGIS), MOLASSES (lava flow model), MELTS (thermodynamic phase equilibria in magmatic systems), Agisoft (SfM software), Tephra2 (tephra dispersal), Titan2D (mass flow), LAHARZ, spatial density modeling (vent opening hazards)
Laboratory	Optical microscopy, scanning electron microscopy, thin section creation, grain size analysis (sieving and laser diffraction), analogue modeling of volcanic processes (ballistic distribution using liquid nitrogen explosions, molten glass lava flows, bubble ascent in syrups, and ink/gelatin dike injections)
Surveying	Qualtrics, Survey quality assurance, Online survey design and administration
Language	Basic Spanish (Puerto Rican), familiar with Te reo Māori and 'Ōlelo Hawai'i constructs
Design	Visual Design, Inclusive design practices, Colour theory, Print and web design principles, Visual communication theory, Adobe Creative Suite

OUTREACH

2020	Sutton Summer Trust (Program that supports students from disadvantaged backgrounds)
2020	"What to do when a pandemic derails your plans" panelist (SACNAS)
2020-202?	Various Guest lectures for high school and university students during COVID-19
2016-2019	Organiser, speaker liaison, event emcee for the Tampa Taste of Science Festival
2017, 2019	Preparing for a Career in Geology panel member, USF Geosciences
2016-2019	Great American Teach-In Participant
2006-2008	Nature and Science Program Director (Girl Scouts, ages 5-17)

STUDENTS ADVISED

2018-present: Timothy Fallon (Gravity Survey of the Lost River Valley, Idaho, USA) | MS Committee (USF)
2021: TBD (Assessing hazard from volcanoes in long repose periods) - PhD Committee (Cambridge)

PROFESSIONAL SERVICE

- 2020-pres. Topical Editor: Volcanica**
Geoscience in Context Seminar Coordinator, University of Cambridge
GSA Diversity, Equity, and Inclusion Cultural Taskforce
Volcanology Seminar Coordinator, University of Cambridge
- 2019-pres. GeoLatinas, General Leadership Council:** helped establish conversando con Geolatinas (Spanish-English language practice), Newsletter editor, and gratis writing consultant for English language learners (long format documents, grants, articles, etc.)
- 2018-pres.** Reviewer: G^3 , Journal of Geophysical Research, NASA proposals, Natural Hazards, Earth and Planetary Science Letters, Volcanica, and Journal of Applied Volcanology
- 2017-pres.** Social media manager for IAVCEI's Commission on Volcanic Hazard and Risk

INVITED SPEAKING ENGAGEMENTS

- Beyond models: Investigating the context of volcanic hazard assessments | University of New Orleans (2020)
Beyond models: Investigating the context of volcanic hazard assessments | James Madison University (2020)
Assessing hazards from distributed volcanic fields | University of Cambridge (2020)
Modeling volcanic hazards | Central Washington University (2020)
Modeling lava flow hazards | University of Florida (2019)
Lava flow and vent opening hazards of the eastern Snake River Plain | Dept. of Energy Sponsored (2018)
Modeling lava flow hazards | Tampa Taste of Science (formerly Pint of Science) (2017)
Monitoring Volcanic Hazards in Hawai'i | SUNY Buffalo State (2013)

MEDIA ATTENTION

- Inaugural Speaker for the USF Library's Geoscience themed podcast, Calling Earth! [\[link\]](#)
2016 Interviewed by Nicaraguan press on response to 2015-2016 Momotombo eruption [\[link\]](#)
2016 Interviewed by University of South Florida press about the Momotombo eruption [\[link\]](#)

WORKSHOP PARTICIPATION

- InSAR Processing | COMET (2020)
Magma, Melts, and Glasses | University of Munich (2020)
Inclusive and Effective College Science Classrooms | AGU (2019)
Fostering Diverse, Inclusive, and Equitable Communities in Field Experiences | AGU (2019)
Volcanic Hazard Assessment for Critical Facilities | Cities on Volcanoes (2018)
Social Media Utility in Volcano + Hazard Communications | Cities on Volcanoes (2018)
Probabilistic Hazard Assessment at Lassen Volcano | IAVCEI (2017)
Volcanic Crisis Awareness | National Disaster Preparedness Training (2014)
Volcanic Hazard Assessment | University of South Florida (2014)
Secondary Ion Mass Spectrometry | Arizona State University (2014)
Conversing with Pelehonuamea | Hawai'i Volcanoes National Park (2013)
Modeling Volcanic Hazards | IUGG (2011)
Ground-Based and Remote Sensing of Volcanic Unrest | IUGG (2011)

PROFESSIONAL AFFILIATIONS

GeoLatinas, American Geophysical Union (**AGU**), Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (**SACNAS**), Geological Society of America (**GSA**), Sigma Xi, International Association of Volcanology and Chemistry of the Earth's Interior (**IAVCEI**), Association for Women Geoscientists (**AWG**)

CONFERENCE ABSTRACTS

24. Walshe, R., Donovan, A., Morin, J., and **Gallant, E., (2021)**, Introducing Project 'IMAGINE', Goals, Gaps and Groundwork, Volcanic and Magmatic Studies Group Meeting, UK.
23. Kruse, S., Downs, C., **Gallant, E.**, Germa, A., Ippolito, T., Juster, T., McIlrath, J., Sheffield, S., Walker, L., and Wilson, J., **(2020)**, A collaborative textile record of climate change: the Tempestry Project in Tampa, Florida, USA: AGU Fal 2021 Meeting, USA.
22. Sutton, S., Richardson, J., Whelley, P., Hamilton, C., Scheidt, S., Young, K., Höskuldsson, A., Jónsdóttir, I., Thordarson, T., and **Gallant, E., (2020)**, The onset of degradation of a large spatter rampart in Iceland: Lunar and Planetary Science Conference.
21. **Gallant, E.**, Deng, F., Zayac, J., Richardson, J., Connor, C., Saballos, J.A., Guitierrez, C., Myhre, D., Charbonnier, S., Thompson, G., Connor, L., Malservisi, R., LaFemina, P., and Dixon, T., **(2019)** Deep and rapid thermo-mechanical erosion by a small-volume lava flow: Fall Meeting, AGU - San Francisco, California, USA.
20. Roman, D., La Femina, P., Connor, C., Wauthier, C., Feineman, M., **Gallant, E.**, Saballos, J.A., Strauch, W., Tenorio, V., and Navarro, M., **(2019)**, Coordinated Rapid Response to the 2015-16 Eruption of Volcan Momotombo, Nicaragua: AGU - San Francisco, California, USA.
19. Wetmore, P., Hastings, M., Fallon, T., **Gallant, E.**, Mack, B., Nassif, R., Connor, C., Connor, L., and Malservisi, R., **(2019)** Testing potential fault and basin geometries for the Lost River Fault Zone, Idaho: Fall Meeting, AGU - San Francisco, California, USA.
18. Richardson, J., Miller, D., and **Gallant, E., (2019)**, Erupted volumes of Venus low shield volcano clusters: Lunar and Planetary Science Conference - Houston, Texas, USA.
17. Connor, C., Connor, L., Richardson, J., **Gallant, E.**, Miller, D., **(2018)** Using MOLASSES, a Lava Flow Simulation Code, to Interpret the Morphology of Volcanoes: Example of Olympus Mons (Mars): Lunar and Planetary Science Conference - Houston, Texas, USA.
16. Richardson, J., Connor, L., Connor, C., **Gallant, E., (2017)**, Probabilistically modelling lava flows with MOLASSES: Fall Meeting, AGU - New Orleans, Louisiana, USA.
15. Wetmore, P., Xie, S., **Gallant, E.**, Owen, L., Dixon, T., **(2017)**, A New Geological Slip Rate Estimate for the Calico Fault, Eastern California: Implications for Geodetic Versus Geologic Rate Estimates in the Eastern California Shear Zone: Fall Meeting, American Geophysical Union New Orleans, LA, USA.
14. **Gallant, E.**, Connor, C., Connor, L., Richardson, J., and Wetmore, P. **(2017)**. Probabilistic lava flow hazard assessment for the Idaho National Laboratory. International Association of Volcanology and Chemistry of the Earth's Interior - Portland, Oregon, USA.
13. Deng, F., Rodgers, M., Xie, S., Dixon, T., Charbonnier, S., **Gallant, E.**, López-Velez, C., Ordoñez, M., Malservisi, R., Voss, N, Richardson, J., **(2017)**, High-resolution DEM generation from multiple remote sensing data sources for improved volcanic hazard assessment- a case study from Nevado del Ruiz, Colombia: European Geophysical Union - Vienna, Austria.
12. **Gallant, E.**, Deng, F., Xie, S., Saballos, J., Connor, C., Dixon, T., Myhre, D., **(2016)**, Terrestrial Radar Survey of Momotombo volcano, Nicaragua: Fall Meeting, AGU - San Francisco, California, USA.
11. Richardson, J., Connor, L., **Gallant, E.**, Connor, C., Charbonnier, S.J., **(2016)**, Probabilistically modeling lava flow hazard using the MOLASSES lava flow simulator: Fall Meeting, AGU - San Francisco, California, USA.
10. Kruse, S., Robinson, J.E., Bacon, C.R., **Gallant, E.**, and McIlrath, J., **(2016)**, Integrating ground penetrating radar, lidar, and geologic mapping to image fault displacements at Mount Mazama (Crater Lake), Oregon: Fall Meeting, AGU - San Francisco, California, USA.
9. Richardson, J., Connor, L., **Gallant, E.**, Connor, C., Charbonnier, S., **(2016)**, Probabilistically modeling lava flow hazard using the MOLASSES lava flow simulator: Cities on Volcanoes - Puerto Varas, Chile.
8. Xie, S., Wetmore, P., Owen, L., **Gallant, E.**, Dixon, T., **(2016)**, Evidence for a high slip rate of the Calico fault in the Eastern California Shear Zone: Fall Meeting, AGU - San Francisco, California, USA.

CONFERENCE ABSTRACTS *(continued)*

7. Roman, D., La Femina, P., Connor, C., Connor, L., Dixon, T., Feineman, M., **Gallant, E.**, Geirsson, H., Glover, C., Rinehart, J., Ruiz, G., Saballos, A., Strauch, W., Tenorio, V., Wauthier, C., Webley, P., Wnuk, K. **(2016)**, Multidisciplinary Studies of the 2015-2016 Eruption of Momotombo Volcano, Nicaragua: Fall Meeting, AGU - San Francisco, California, USA.
6. **Gallant, E.**, Richardson, J., Connor, C., Wetmore, P., Connor, L., **(2015)**, Lava Flow Hazard Assessment for the Idaho National Laboratory: A Probabilistic Approach to Modeling Lava Flow Inundation with MOLASSES: Fall Meeting, AGU - San Francisco, California, USA.
5. Richardson, J., Connor, L., Charbonnier, S., Connor, C., **Gallant, E.**, **(2015)**, Validating Cellular Automata Lava Flow Emplacement Algorithms with Standard Benchmarks: Fall Meeting, AGU - San Francisco, California, USA.
4. **Gallant, E.**, Richardson, J., Connor, C., Wetmore, P., and Connor, L., **(2014)**, Sills of the San Rafael Volcanic Field, Utah: Fall Meeting, AGU - San Francisco, California, USA.
3. **Gallant, E.**, Martinez-Hackert, B. **(2012)**, Understanding the Eruptive History of Ilamatepec. Posters on the Hill (Meeting with US Congress Members) - Washington D.C., USA.
2. **Gallant, E.** and Martinez-Hackert, B. **(2011)**, Unearthing The Eruptive Personality Of El Salvador's Santa Ana (Ilamatepec) Volcano Through In-depth Stratigraphic Analysis of Pre-1904 Deposits: Fall Meeting, AGU - San Francisco, California.
1. **Gallant, E.**, Martinez-Hackert, B., Bajo, J., Escobar, D., Gutierrez, E. **(2011)**, Monitoring of Thermal and Hydrothermal Activity of Santa Ana (Ilamatepec) Volcano post-2005 Eruption, International Union of Geodesy and Geophysics General Assembly - Melbourne, Australia.