

Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

Dichiarazione sostitutiva dell'atto di notorietà

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	1_2022 - Valutazione dei valori di fondo di acque ubicate in aree minerarie.
Informazioni aggiornate al	23/02/2023
Nome e Cognome	Fabrizio Alfano
Data di nascita	21/01/1975

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
2022 - Corrente	Borsa di ricerca dell'ARPA Sardegna all'Università degli Studi di Cagliari (Italia) - Valutazione dei valori di fondo di acque ubicate in aree minerarie – Supervisore: Prof. Giovanni De Giudici	Campionamento Acque e Suoli, analisi dei campioni, analisi dei dati, redazione relazioni tecniche
2023	Università degli Studi di Cagliari - Facoltà di Biologia e Farmacia	Tutor Didattico per il corso “Geologia con Elementi di Rilevamento Geologico” del CdS in Scienze Ambientali e Naturali – SSD: GEO/02
2020-2022	Professore aggiunto alla Grand Canyon University (Phoenix, Az, USA)	Professore del corso PHY 104 Earth and Space Science
2017-2022	Professore aggiunto al Chandler Gilbert Community College (Chandler, AZ, USA)	Professore per i corsi: GLG 101, Introduction to Geology I – Lecture; GLG 103, Introduction to Geology I - Physical Lab; GLG 110, Geological Disasters and the Environment Lecture; GLG 111, Geological Disasters and the Environment Lab; GLG 230AB Field Geology of the Southwest; GLG 101IN, Introduction to Geology I.
2014-2015	Istruttore per il programma Research Experience for Undergrads: Volcanic Landscape Evolution. Tenuto dalla Northern Arizona University (Flagstaff, AZ). Leader del programma: Prof. Nancy Riggs	Istruttore di vulcanologia fisica e tutor
2012-2022	Assistente di ricerca post-	Ricerca, analisi campioni, elaborazione

	dottorale per la School of Earth and Space Exploration dell'Arizona State University (Tempe, AZ, USA). Progetto: Understanding the Causes of Highly Explosive Basaltic Eruptions Using the AD 1085 Sunset Crater Eruption and its Deposits. Leader del progetto: Prof. Amanda Clarke	dati, redazione articoli e posters.
2007-2012	Assistente dottorando al Department of Mineralogy dell'University of Geneva (Ginevra, Switzerland). Supervisore: Prof. Costanza Bonadonna	Assistente istruttore per il CERG-C (Specialisation certificate for the assessment and management of geological and climate related risk) e per il corso di Caratterizzazione di campioni geologici all'University of Geneva. Responsabile dei laboratori di analisi di granulometria e caratterizzazione dei campioni geologici all'University of Geneva.
2006	Tirocinio formative presso PROGEMISA s.p.a., Cagliari, Italy: Tecniche analitiche per l'identificazione dei minerali attraverso microscopia ottica ed elettronica e diffrattometria dei Raggi X. Supervisore: Dr. Roberto Lonis	Analisi di campioni mineralogici
1998-1999	Servizio Civile Nazionale ((Misericordia di Cagliari))	Soccorritore e autista di ambulanze

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
25/11/2022	Abilitazione alla professione del Geologo	Universita' degli Studi di Cagliari
2018	EDU250 : Introduction to Teacher Education	Chandler Gilbert Community College (Chandler, Az, USA)
2011	Dottorato in Scienze della Terra	Universita' di Ginevra (Svizzera)
2005	Laurea Magistrale in Scienze Geologiche	Universita' degli Studi di Cagliari

Pubblicazioni / Convegni

Pubblicazioni Peer review

- Riggs, N., Ort, M., Connor, C., ALFANO F., and Conway, M. (2019) Volcanology and associated hazards of the San Francisco volcanic field (P. A. Pearthree, Ed.): Geologic Excursions in Southwestern North America, v. 55, p. 0, doi: 10.1130/2019.0055(05).
- La Spina G., Clarke A.B., de'Michieli Vitturi M., Burton M., Allison C.M., Roggensack K., ALFANO F. (2019) Conduit dynamics of highly explosive basaltic eruptions: The 1085 CE Sunset Crater sub-Plinian events. Journal of Volcanology and Geothermal Research, Volume

387, DOI: 10.1016/j.jvolgeores.2019.08.001.

- ALFANO F., Ort M.H., Pioli L., Self S., Hanson S.L., Roggensack K., Allison C.M., Amos R., Clarke A.B. (2018) Subplinian monogenetic basaltic eruption of Sunset Crater, Arizona, USA. GSA Bulletin, DOI: 10.1130/B31905.1
- ALFANO F., Bonadonna C., Watt S., Connor C., Volentik A. (2016) Reconstruction of total grain size distribution of long lasting eruptions: the example of the 2008 Chaitén eruption. Bulletin of Volcanology 78 (46). DOI 10.1007/s00445-016-1040-5.
- P. D. Cole, P. J. Smith, J.-C. Komorowski, ALFANO F., Bonadonna C., A. J. Stinton, T. Christopher, H. M. Odbert, and S. Loughlin (2014). Precursory activity, ash venting and minor explosive activity at Soufrière Hills Volcano 2005 to 2010. In G. Wadge, R. Robertson, and B. Voight, editors, The Eruption of Soufrière Hills Volcano, Montserrat from 2000 to 2010. Geological Society Memoirs, London.
- Ruff S., Niles P., ALFANO F., Clarke A. (2014) Evidence for a Noachian-aged Playa Lake in Gusev Crater, Mars. Geology.
- ALFANO F., Bonadonna C., Gurioli L. (2012). Insights into rhyolitic eruption dynamic from textural analysis: the example of the May 2008 Chaitén eruption (Chile). Bulletin of Volcanology 74(9): 2095-2108.
- Bonadonna C., Genco R., Gouhier M., Pistolesi M., Cioni R., ALFANO F., Höskuldsson A., Ripepe M. (2011). Tephra sedimentation during the 2010 Eyjafjallajökull eruption (Iceland) from deposit, radar and satellite observations. Journal of Geophysical Research 116(b12202) 20 pp. doi:10.1029/2011JB008462.
- ALFANO F., Bonadonna C., Delmelle P., Costantini L. (2011). Insights on settling velocity from morphological observations. Journal of Volcanology and Geothermal Research, 208(3-4), 86-98. doi: 10.1016/j.jvolgeores.2011.09.013.
- ALFANO F., Bonadonna C., Volentik A., Connor C., Watt S., Pyle D., Connor L. (2011). Tephra Stratigraphy and Eruptive Volume of the May, 2008, Chaitén Eruption, Chile. Bulletin of Volcanology, 73(5): 613-630.

Convegni

- Mohr K, Clarke AB, Vitturi MDM, ALFANO F, Zawacki EE, Roggensack K, Modeling Plume Dynamics and Ash Dispersal in Highly Explosive Basaltic Eruptions, 2020, Chapman Conference on Distributed Volcanism and Distributed Volcanic Hazards, Flagstaff
- La Spina G, Clarke AB, de' Michieli Vitturi M, Allison CM, Roggensack K, ALFANO F, Burton M. 1085 AD sub-Plinian eruptions at Sunset Crater: a numerical study through a 1D transient conduit model of magma ascent. EGU General Assembly Conference 2018
- ALFANO F., Clarke A.B., Bonadonna C., Pioli L. Modeling eruption characteristics and tephra dispersal of the 1085 AD Sunset Crater (AZ, USA) eruption using the inversion approach. IUGG 2015, Prague
- ALFANO F., Muirhead J.D., Arrowsmith JR, Clarke A.B., Van Eaton A.R., Till R., Pearthree K., Gleeman E., Zibarh S., Del Vecchio J., De' Michieli Vitturi M., Riggs N. Application of Structure from Motion technology to three dimensional mapping of volcanic and intrusive features, IUGG 2015, Prague
- Ruff S.W., Farmer J.D. Milliken R. Niles P.B., ALFANO F., Clarke A.B., Kraft M.D., Hardgrove C.J. (2014) Investigating the Habitability and Preservation Potential of Two Aqueous Settings in Gusev Crater, Mars. American Geophysical Union, Fall Meeting 2014,

Abstract # P32A-08.

- ALFANO F., Pioli L., Clarke A. B., Ort M. H., Roggensack K., Self S. (2014) Evidence of a complex shallow reservoir network from micro-textural observations of the scoria products of the 1085 AD Sunset Crater eruption. American Geophysical Union, Fall Meeting 2014, Abstract # V21B-4748.
- Till R., Arrowsmith J. R., ALFANO F., Clarke A.B., De' Michieli Vitturi M., Del Vecchio J., Pearthree K., Muirhead J., Carr B. (2014) Cinder cones with complex original forms and implications for morphologic dating. 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014). Paper No. 234-13.
- Pearthree K., Clarke A.B., Arrowsmith J.R., Anderson K., ALFANO F., Del Vecchio J., Dekko R., De' Michieli Vitturi M., Till R. (2004) Investigating the relations among eolian dust accumulation, rill formation, and morphologic age for cinder cones, San Francisco Volcanic Field REU. 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014). Paper No. 223-4.
- Del Vecchio J., Arrowsmith J.R., ALFANO F., De' Michieli Vitturi M., Clarke A.B., Pearthree K., Till R. (2014) Aspect-related differences in sediment transport rates on cinder cones, San Francisco Volcanic Field REU. 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014). Paper No 223-2.
- ALFANO F., Bonadonna C., Connor C., Volentik A. (2014) Fragmentation, dispersal and sedimentation of a rhyolitic eruption: the example of Chaiten 2008, Chile. Tephra 2014 - Maximizing the potential of tephra for multidisciplinary science. Portland State University, Portland, USA. August 2014.
- Arrowsmith J.R., Zibart S.E., Gleeman E., ALFANO F., Clarke A.B., De' Michieli Vitturi M., Dekko R. (2013) Exploring the topographic evolution of cinder cones. American Geophysical Union, Fall Meeting 2013, abstract #EP31D-08.
- Allison C., Roggensack K. Clarke A.B., ALFANO F. (2013) Understanding highly explosive basaltic eruptions: Evidence from olivine-hosted melt inclusions from Sunset Crater, AZ. American Geophysical Union, Fall Meeting 2013, abstract #V31B-2698.
- ALFANO F., Pioli L., Clarke A. B., Ort M. H., Roggensack K., Self S. (2013) Highly explosive mafic eruptions from the interplay between high viscosity and low viscosity magma: the Sunset Crater (AZ, USA) eruption. American Geophysical Union, Fall Meeting 2013, Abstract #V23C-2838.
- Zibart S.E., Gleeman E., Arrowsmith J.R., ALFANO F., Clarke A.B., De' Michieli Vitturi M., Dekko R. (2013) Using cinder cone morphology to constrain age (San Francisco Volcanic Field REU). GSA Annual Meeting in Denver, Colorado (October 2013). Paper No. 16.
- Gleeman E., Zibart S.E., Arrowsmith J.R., Clarke A.B., ALFANO F., De' Michieli Vitturi M., Dekko R. (2013) Erosion of cinder cones in the San Francisco Volcanic Field (San Francisco Volcanic Field REU). GSA Annual Meeting in Denver, Colorado (October 2013). Paper No. 6.
- ALFANO F., Pioli L., Clarke A. B., Ort M. H., Roggensack K., Self S. (2013) Highly explosive basaltic eruptions: the case of the sunset crater (AZ, USA). IAVCEI general assembly, Kagoshima 2013, Abstract #A2_3B-O12
- ALFANO F., Pioli L., Clarke A. B., Ort M. H. Self S. (2012) Characterization of the 1000 AD Sunset Crater eruption and its pyroclastic products. American Geophysical Union, Fall

Meeting 2012, abstract #V53C-2851.

- ALFANO F., Bonadonna C., Delmelle P., Costantini L. (2012). Insights on settling velocity from morphological observations. Explosive Ash-forming Eruptions: Mechanisms, Ash Morphology, and Transport. May 13-15, 2012, Lehigh University, Bethlehem, PA.
- ALFANO F., Bonadonna C., Gurioli L. (2011). Insights into rhyolitic eruption dynamic from textural analysis: the example of the May 2008 Chaitén eruption (Chile). 2011 IUGG general assembly, Melbourne, Australia.
- ALFANO F., Bonadonna C., Volentik A., Connor C., Watt S., Pyle D., Connor L. (2010). Stratigraphy and Physical Characterization of the May, 2008, Chaitén Eruption, Chile. 2010 AGU Fall Meeting, San Francisco, California.
- ALFANO F., Bonadonna C., Volentik A., Connor C., Watt S., Pyle D., Connor L. (2010). Tephra Stratigraphy of the May, 2008, Chaitén Eruption, Chile. Cities on Volcano 6, Tenerife, Spain.
- ALFANO F., Bonadonna C., Volentik A., Connor C., Watt S., Pyle D., Connor L. (2009). Tephra Stratigraphy of the May, 2008, Chaitén Eruption, Chile. Swiss Geoscience Meeting, Bern, Switzerland.
- ALFANO F. and Bonadonna C. (2008). Morphological characterization of tephra particles and implications for the associated settling velocity. IAVCEI general assembly, Reykjavik, Iceland.
- ALFANO F. and Bonadonna C. (2007). Characterization of tephra particles: influence of the shape on the terminal fall velocity. Swiss Geoscience Meeting, Geneva, Switzerland.

Convocatore Sessioni di Conferenze

- 2019 - Volcanology and Associated Hazards of the San Francisco Volcanic Field. 2019 GSA Meeting, Phoenix AZ.
- 2015 - Sessione IAVCEI VS34: Effects of Water on Subaerial Volcanic Eruptions and Ash Dispersal and VS07 Explosive Basaltic Eruptions on Earth and other Planets, at the IUGG2015 congress in Prague

Altre Attività Scientifiche

Lavori non pubblicati e Relazioni:

- Progetto VDF-AMD. Determinazione dei Valori di Fondo naturale sui suoli e le acque sotterranee delle Aree Minerarie Dismesse della Sardegna. Valori di Fondo Suoli area mineraria di Arenas-Tiny. RELAZIONE TECNICA
- Bursik M., Kuehn S., Pouget S., Wallace K. and Participants in Tephra 2014 (2015). Maximizing the potential of tephra for multidisciplinary science. University at Buffalo.
- Sahagian D., and participants in the Volcanic Ash Workshop (May, 2012). WHITE PAPER. Explosive Ash-forming Eruptions: Mechanisms, Ash Morphology, and Transport. Written as a guide for NSF programs and planning, 2012. Lehigh University.
- ALFANO F. (2005) Strutture di mixing-mingling magmatico in alcune lave del Monte Arcuentu (Sardegna centro-occidentale). Thesis. Università degli Studi di Cagliari

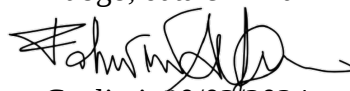
Workshops:

- 2022 - Hydrogeochemistry: Concepts and Applications (short course). Università degli Studi di Cagliari, Cagliari.
- 2015 - VW04 Remote Sensing and Modelling of Volcanic Ash in Latin America. IUGG 2015, Prague
- 2014 - Tephra 2014 - Maximizing the potential of tephra for multidisciplinary science. Portland State University, Portland, USA.
- 2014 - Short course on Rhyolite MELTS & pMELTS. Tempe, ASU
- 2012 - Volcanism in the American southwest. Flagstaff. USGS and Northern Arizona University
- 2012 - Explosive Ash-forming Eruptions: Mechanisms, Ash Morphology, and Transport. Lehigh University, Bethlehem, PA.
- 2011 - 2001 IUGG general assembly, Melbourne, Australia:
- VHub cyberinfrastructure for volcanology – modeling, data sharing and collaboration
- 2011 - DPMS, Université de Genève, Switzerland:
- Short course on MapInfo, Discover and Discover 3D
- 2010 - DPMS, Université de Genève, Switzerland:
- Lattice Boltzmann Modeling : Principles and Diverse Geologic Applications
- 2010 - Cities on Volcano 6, Tenerife, Spain:
- Explosive volcanism at Tenerife, Canary Islands
- 2009 - AIVULC; IGME; National-Kapodistrian University of Athens, Nisyros, Greece:
- Field volcanological laboratory: the Nisyros and the adjoining volcanoes, Greece – A window on the pre-eruptive magma processes
- 2009 - DPMS, Université de Fribourg, Switzerland:
- Mont Vesuvius (Italy): Past and Future Impact on Environment and Humans
- 2008 - AIVULC, Stromboli, Italy:
- Volcanic processes in basaltic volcanic islands: learning from monitoring and research activities of the recent eruptive crises of Stromboli
- 2008 - IAVCEI general assembly, Reykjavik, Iceland: Recent developments in explosive volcanism
- 2008 - IAVCEI general assembly, Reykjavik, Iceland: Askja Volcano: Silicic explosive volcanism at divergent plate boundaries: Near-vent successions of a caldera-forming eruption
- 2007 - DPMS, Université de Genève, Switzerland: Main volcanic processes and associated hazards

Ulteriori informazioni pertinenti

Conoscenza lingua Inglese: Scritto (B2) – Parlatto (B2)
Conoscenza lingua Francese: Scritto (A2) – Parlatto (A2)
Patente B

Luogo, data e firma


Cagliari, 20/02/2024