

CURRICULUM VITAE

1- PERSONAL DATA

Surname: **URBANI** Name: **STEFANO**

Place and data of birthday: Civitavecchia (Rome), Italy, 1st August 1988

Address: Via Fratelli Rosselli 8, 00053 Civitavecchia (Rome), Italy

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Languages: Italiano: mother tongue, English: B1 (written and spoken)

2- ACADEMIC CAREER

- May 2014 – Master Degree in “Geology of territory and resources”, curriculum in “Resources”, Roma Tre University (Supervisor: Prof. Valerio Acocella Co-Supervisors: Dr. Daniele Trippanera, Dr. Massimiliano Porreca), grade: 110/110 with honors. Title: “Magma flow direction in Eastern Iceland dikes: Insights from field analysis, magnetic fabric and thin section analysis”.
- February 2011 – Bachelor Degree in “Geology”, Roma Tre University (Supervisors: Prof. Federico Rossetti, Dr. Ciriaco Giampaolo, Dr. Giuseppe Della Monica), grade: 110/110. Titles: 1) “Geological and structural mapping of Sasso di Furbara area (central Apennines)”; 2) “Triaxial cell tests for the characterization of travertine of Tivoli (Rome)”.
- July 2007 – Scientific High School Diploma, grade: 83/100; Scientific High School: “Galileo Galilei”, Civitavecchia, Italy.

3- WORK EXPERIENCE

February 2013: Collaboration with professional geologists in Civitavecchia (Rome):
Seismic microzonation study (first level) town of Montorio Romano (Rome).

November 2012: Collaboration with professional geologists in Civitavecchia (Rome):
Seismic microzonation study (first level) town of Santa Marinella (Rome).

December 2010 - February 2011: Internship at “Istituto di Geologia Ambientale e Geoingegneria” (IGAG-CNR), Monterotondo, Rome. Research project: “Seismic microzonation study of the municipalities in the province of Foggia, Italy”

4- RESEARCH ACTIVITIES

Field of interest

Dike propagation, sill emplacement, relationship between tectonics and magma, volcano deformation, structural field analysis in volcanic areas, Volcano-tectonics.

Methods

- a) Structural field analysis of volcanic islands, rifts and eruptive fissures, volcanic edifices and calderas.
- b) Analogue modelling of dike propagation and sill emplacement.
- c) Study of magma emplacement applying the Anisotropy of Magnetic Susceptibility (AMS) technique and shape preferred orientation (SPO) of phenocrysts on dikes;

Studied areas

Magmatic systems in Iceland (Alftafjordur, Bardarbunga).

Volcanic edifices and calderas: Askja (Iceland), Puy de Sancy (France), Etna (Italy).

Scientific collaborations

Université “Blaise Pascal”, Clermont-Ferrand: structural field analysis at Puy de Sancy.

INGV, Sezione di Catania, Osservatorio Etneo, Catania: structural field analysis at Etna

Reviewer activities

Co-Supervisor of master thesis at Roma Tre University:

- Dr. Sili G.: “Conditions favoring sill emplacement: Insights from analogue models” (2015-2016);
- Dr. Fittipaldi M.: “Neck formation in active volcanoes and analogue models” (2017-2018);

5 – PUBLICATIONS

Published in peer-reviewed international journals

- 1) **Urbani, S.**, Acocella V., Rivalta E., and Corbi F. (2017), Propagation and arrest of dikes under topography: Models applied to the 2014 Bardarbunga (Iceland) rifting event. *Geophysical Research Letters*, 44, 6692–6701, doi:10.1002/2017GL073130.
- 2) **Urbani S.**, Trippanera D., Porreca M., Kissel C. and Acocella V. (2015) Anatomy of an extinct magmatic system along a divergent plate boundary: Alftafjordur, Iceland. *Geophysical Research Letters*, 42, 6306-6313, doi:10.1002/2015GL065087.

6 – ABSTRACT

- 1) **Urbani S.**, Acocella V., Rivalta E. and Corbi F., (2017). What controls lateral dike propagation and arrest along rift zones? Insights from analogue and numerical models. EGU General Assembly 2017, *Geophysical Research Abstracts*, Vienna (oral presentation).
- 2) Trippanera, D., **Urbani, S.**, Porreca, M., Acocella, V., Kissel, C., Sagnotti, L., & Winkler, A., (2017). Interpreting inverse magnetic fabric in dikes from Eastern Iceland. EGU General Assembly 2017, *Geophysical Research Abstracts*, Vienna (poster presentation).
- 3) Trippanera, D., Ruch, J., Acocella, V., Thordarson, T., & **Urbani, S.**, (2017). Interaction between central volcanoes and regional tectonics along divergent plate boundaries: an

example from Askja, Iceland. EGU General Assembly 2016, Geophysical Research Abstracts, Vienna (poster presentation).

4) **Urbani, S.**, Trippanera, D., Porreca, M., Kissel, C., Acocella, V., (2016). Anatomy of an extinct magmatic system along a divergent plate boundary: Alftafjordur, Iceland, Conferenza Rittmann Giovani Ricercatori, Bari 13-15 December 2016 (poster presentation).

5) **Urbani, S.**, Trippanera, D., Porreca, M., Kissel, C., Acocella, V., (2016). Anatomy of an extinct magmatic system along a divergent plate boundary: Alftafjordur, Iceland, ILP-Topoeurope joint meeting, Clermont-Ferrand 2-6 October 2016 (poster presentation).

6) **Urbani, S.**, Acocella, V., Rivalta, E., (2016). What drives the lateral vs vertical propagation of dikes? Insights from analogue models, ILP-Topoeurope joint meeting, Clermont-Ferrand 2-6 October 2016 (oral presentation).

7) **Urbani, S.**, Acocella, V., & Rivalta, E., (2016). What drives the lateral vs vertical propagation of dikes? Insights from analogue models. EGU General Assembly 2016, Geophysical Research Abstracts, Vienna (oral presentation).

8) Trippanera, D., Ruch, J., Acocella, V., **Urbani, S.**, & Thordarson, T., (2016). Interaction between central volcanoes and fissure swarms along divergent plate boundaries: an example from Askja Volcano, Northern Iceland. EGU General Assembly 2016, Geophysical Research Abstracts, Vienna (poster presentation).

9) Porreca, M., **Urbani, S.**, Trippanera, D., Acocella, V., Kissel, C., & Sagnotti, L., (2015). Interpreting inverse magnetic fabric in dikes from Eastern Iceland. 26th IUGG General Assembly, Praga, 25 June – 2 July 2015 (oral presentation).

10) **Urbani, S.**, Trippanera, D., Porreca, M., Acocella, V., & Kissel, C., (2015). Magma flow direction of dikes in Eastern Iceland: Insights from field, magnetic fabric and thin section analyses. EGU General Assembly 2015, Geophysical Research Abstracts, Vienna (poster presentation).

11) Trippanera, D., Acocella, V., Ruch, J., Abebe, B., Norini, G., Thordarson, T., **Urbani, S.**, & Gudmundsson, A., (2014). What controls the shallow structure of divergent plate boundaries? Insights from field and modelling data. EGU General Assembly 2014, Geophysical Research Abstracts, Vienna (oral presentation).