Curriculum vitae

Sergio Andò

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a. Professional Preparation

- Graduate Institution Geology M.S., 2001
- Graduate Institution Geology Ph.D., 2005-2007

b. Career

- Technician, Laboratory of Sedimentology, 2002-2004 and 2008- September 2014
- Associate Professor, Sedimentology, University of Milano-Bicocca, Italy, October 2014-present

c. Selected Publications

1. **Andò S**., 2020. *Gravimetric Separation of Heavy Minerals in Sediments and Rocks.* Minerals, 10, 273; doi:10.3390/min10030273.
2. Dailey S.K., Clift P.D., Kulhanek D.K., Blusztajn J., Routledge C.M., Calvès G., O'Sullivan P., Jonell T.N., Pandey D.K., **Andò S.**, Coletti G., Zhou P., Li, Y., Neubeck N.E., Bendle J.A.P., Aharonovich S., Griffith E.M., Gurumurthy G.P., Hahn A., Iwai M., Khim B.K., Kumar A., Kumar G.A., Liddy H.M., Lu H., Lyle M.W., Mishra R., Radhakrishna T., Saraswat R., Saxena R., Scardia G., Sharma G.K., Singh A.D., Steinke S., Suzuki K., Tauxe L., Tiwari M., Xu Z. and Zhaojie Yu, 2019*. Large-scale mass wasting on the Miocene continental margin of western India.* GSA Bulletin; v. 131; p. 1-28. https://doi.org/10.1130/B35158.1
3. Garzanti E., **Andò S.**, 2019. *Heavy Minerals for Junior Woodchucks*. In Special issue "Heavy Minerals", Minerals, 9(3), 148.
4. **Andò S.**, Garzanti E., 2014. *Raman spectroscopy in heavy-mineral studies*. Geological Society, London, Special Publications 386 (1), 395-412.
5. **Andò S.**, Garzanti E., Padoan M. and Limonta M., 2012. "*Corrosion of Heavy Minerals during Weathering and Diagenesis: A Catalog for Optical Analysis*." Sedimentary Geology, 280: 165-178.
6. **Andò S.**, Morton A., Garzanti E., 2014. *Metamorphic grade of source rocks revealed by chemical fingerprints of detrital amphibole and garnet*. Geological Society, London, Special Publications 386 (1), 351-371.
7. **Andò S.**, Vignola P. and E. Garzanti. 2011. "Raman Counting: A New Method to Determine Provenance of Silt." Rendiconti Lincei 22 (4): 327-347.
8. Garzanti E., **Andò S.**, France-Lanord C., Censi P., Vignola P., Galy V. and Lupker M., 2011. "Mineralogical and Chemical Variability of Fluvial Sediments 2.

Suspended-Load Silt (Ganga-Brahmaputra, Bangladesh)." Earth and Planetary Science Letters 302 (1-2): 107-120.

9. Garzanti E., **Andò S.**, France-Lanord C., Vezzoli G., Censi P., Galy V. and Y. Najman, 2010. "Mineralogical and Chemical Variability of Fluvial Sediments. 1. Bedload Sand (Ganga-Brahmaputra, Bangladesh)." Earth and Planetary Science Letters 299 (3-4): 368-381.
10. Garzanti E., **Andò S.** and Vezzoli G., 2009. "Grain-Size Dependence of Sediment Composition and Environmental Bias in Provenance Studies." Earth and Planetary Science Letters 277 (3-4): 422-432.

d. Synergistic Activities

- Host and organizer of the International School for the study and recognition of heavy minerals entitled: "Heavy Mineral School", at Department of Earth and Environmental Sciences of Milano-Bicocca, Italy, from 20 to 23 February 2018 and from 05 to 13 May 2013.
- Guest-editor of Earth Science Review, 2018-present for the special Issue “Sediment generation and sediment routing systems”.
- Guest-editor of Minerals, 2018-present for the special Issue “Heavy Minerals”.

e. Collaborators & Other Affiliations

- Provenance team: Garzanti Eduardo, Giovanni Vezzoli, Resentini Alberto (Department of Earth and Environmental Sciences of University of Milano-Bicocca, Italy);
- Christian France-Lanord (Centre de recherches Pétrographiques et Géochimiques - CRPG CNRS-Université de Lorraine, France);
- Annette Hahn (Marum, Bremen, Germany);
- Peter Clift (Louisiana State University, USA);
- Pieter Vermeesch (University College London, UK)

f. Co-Supervisor for PhD Students

- 2014-2018, entitled: "Raman Spectroscopy applied to the mineralogical analysis of chalk". Supervisor Udo Zimmermann, candidate Laura Borromeo. Faculty of Sciences and Technology, Department of Energy Resources, University of Stavanger, Norway.
- 2017 in Earth Sciences entitled: "Paleoclimatic reconstructions from ice cores: mineralogical and provenance study of Antarctic and Arctic aeolian dust using Raman spectroscopy". Co-Supervisor Barbara Delmonte, candidate Chiara Ileana Paleari. Department of Earth and Environmental Sciences, University of Milano-Bicocca, Milan, Italy.
- 2011-2014, in Earth Sciences entitled: "Heavy minerals: a key tool to unravel orogenic processes. Sediment generation and recycling at convergent plate boundaries (Indo-Burman-Andaman-Nicobar and Barbados Ridges". Supervisor Eduardo Garzanti, candidate Mara Limonta. Department of Earth and Environmental Sciences, University of Milano-Bicocca, Milan, Italy.
- **g. Formal assignment of teaching at qualified universities**
- Lecturer of the course "Heavy Minerals - a key tool in sediment provenance studies", during the

- 31st IAS Meeting of Sedimentology, in Krakow, Polonia, from 21-06-2015 to 22-06-2015
- Lecturer of the course " Analysis of heavy minerals and their application in Sedimentary Geology", at Geozentrum Nordbayern at Friedrich Alexander University (FAU), Erlangen-Nuremberg, Germany, from 22-01-2018 to 22-01-2018

h. Research Impacts

I am involved in several projects regarding modern sand and silt mineralogy and the study of major big rivers: in the Alps (Po River); Caucasus, Himalaya (Indus, Ganga and Brahmaputra), Africa (Orange River, Limpopo River, Congo River and the Nile River system) and in the Indus and Bengal Fan turbiditic deposits.

Micro-Raman studies integrate microscope compositional analyses of detritus, and allow us to better analyze very fine sands and silt fraction, representing most of the erosional products in different geological settings.

Milan 19th March 2020