

PAOLO GABRIELLI

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Professional Preparation

University Ca' Foscari of Venice, Italy	Environmental Sciences,	M.S., 1998
University J. Fourier of Grenoble, France	Ocean Atmosphere Hydrology	Ph.D., 2004
University Ca' Foscari of Venice, Italy	Environmental Sciences	Ph.D., 2004

Appointments

- 2013-present: Lecturer, School of Earth Sciences, The Ohio State University
2007-present: Research Scientist, Byrd Polar and Climate Research Center, The Ohio State University.
2004-2007: Post-doctoral fellow: Paleoclimatic reconstructions from trace elements determined from polar ice cores, University Ca' Foscari of Venice, 2004 -2007.
2000-2001: Safety Health Environment and Quality Assistant at the Cabot Plastics and co-ordinator of the audit plant team in Grigno (Trento Province, Italy).

Selected Products (among 45 ISI publications; H-index = 22; *my postdoc)

- Gabrielli P. and P. Vallelonga, 2015, Contaminant records in ice cores, in: (Eds), Environmental Contaminants: Using natural archives to track sources and long-term trends of pollution, Springer.
- *Uglietti, C., Gabrielli, P., Cooke, C.A., Vallelonga, P., Thompson, L.G., 2015. Widespread pollution of the South American atmosphere predates the industrial revolution by 240 years. *P. Natl. Acad. Sci. Usa*, 112, 8.
- *Uglietti, C., Gabrielli, P., Lutton, A., Olesik, J., Thompson, L., 2014. Large variability of trace element mass fractions determined by ICP-SFMS in ice core samples from worldwide high altitude glaciers, *App. Geochem.*, 47, 109-121.
- Gabrielli P., Hardy, D. Kehrwald N., Cozzi G., Turetta, C., Barbante C. and Thompson L., 2014, Deglaciated areas of Kilimanjaro as a source of volcanic trace elements deposited on the ice cap during the late Holocene, *Quat. Sci. Rev.* 93, 1-10.
- Gabrielli, P., Barbante, C., Carturan, L., Cozzi, G., Dalla Fontana, G., Dinale, R., Draga, G., Gabrieli, J., Kehrwald, N., Mair, V., Mikhalenko, V.N., Piffer, G., Rinaldi, M., Seppi, R., Spolaor, A., Thompson, L.G., Tonidandel, D., 2012, Discovery of cold ice in a new drilling site in the Eastern European Alps. *Geogr. Fis. Dinam. Quat.*, 35, 101-105.

Five Other Products

- Wegner, A., P. Gabrielli, D. Wilhelms-Dick, U. Ruth, M. Kriews, P. De Deckker, C. Barbante, G. Cozzi, B. Delmonte and H. Fischer, 2012 Change in dust variability in the Atlantic sector of Antarctica at the end of the last deglaciation. *Clim. Past.*, 8, 135-147.
- Gabrielli P., A. Wegner, J.R. Petit, B. Delmonte, P. De Dekker, V. Gaspari, H. Fisher, U. Ruth, M. Kriews, C.F. Boutron, P. Cescon, C. Barbante, 2010, A major glacial-interglacial change in aeolian dust composition as inferred from Rare Earth Elements in Antarctic ice, *Quat. Sci. Rev.*, 29, 265-273.
- Jitaru P., P. Gabrielli, A. Marteel, J.M.C. Plane, F. Planchon, P.A. Gauchard, C. Ferrari, C.F. Boutron, F.C. Adams, S. Hong, P. Cescon, C. Barbante, 2009 Atmospheric depletion of mercury over Antarctica during glacial periods, *Nature Geoscience*, 2, 505-508.

- Gabrielli P., G. Cozzi, s. Torcini, P. Cescon, C. Barbante, 2008. Trace elements in winter snow of the Dolomites (Italy): a statistical study of natural and anthropogenic contributions, *Chemosphere*, 72, 1504 - 1509.
- Gabrielli, P., C. Barbante, J.M.C. Plane, A. Varga, S. Hong, G. Cozzi, V. Gaspari, F. Planchon, W. Cairns, C. Ferrari, P. Crutzen, P. Cescon, and C.F. Boutron, 2004. Meteoric smoke fallout over the Holocene epoch revealed by iridium and platinum in Greenland ice, *Nature* 432, 1011-1014.

Synergistic Activities

- 1) Since 2013 Dr. Gabrielli teaches Environmental Geoscience (Earth2203) at the School of Earth Science. Since 2008 is a regular guest lecturer for the Paleoclimate 740 (also in videoconference with students in Beijing), Geography 410H, Geography 420 classes at The Ohio State University. In this framework he also provide constant updates from his activity of research linked to the studies of ice cores from Tanzania, European Alps, Peru, Himalaya-Tibetan Plateau and Antarctica.
- 2) Dr. Gabrielli provides regularly public seminars (also via videoconference) about his research and field activities. For instance in March 2013 he presented “Leading a research team at high elevation”, in the framework of the Leadership in Adversity class at the Department of Public Safety of OSU. In April 2014, he meet children and parents at Columbus, Ohio's dynamic Center of Science and Industry (COSI) during the COSI 2014 Earth Day Event, in Columbus, Ohio.
- 3) Since 2009, Dr. Gabrielli leads a large international program to study climatic and environmental changes on Mt. Ortles (South Tyrol, Italy). In this collaborative framework, four cores have been drilled on Mt. Ortles during fall 2011. During this occasion an extensive educational outreach program has been established resulting in a unique summer school in glaciology (4th edition planned in September 2014) for high school students near Passo dello Stelvio, at the base of Mt. Ortles (www.ortles.org).
- 4) Since 2009 Dr. Gabrielli has participated in a scientific editorial committee, including various colleagues from the Italian Universities and professionals in journalism and communication, that identifies on the web (www.climalteranti.it) misleading information about climate science and provides education to the general public in the climatic field.

Collaborators (During the past 48 months) (Total: 36)

S. Aciego (Univ. of Michigan), C. Barbante (CNR), J. Barker (The Ohio State University, OSU), L. Carturan (Univ. of Padua), C. Cooke (Yale Univ.) G. Cozzi (CNR), B. Delmonte (Univ. Milan), R. Dinale (Prov. of Bolzano), P. De Dekker (Univ. Camberra), G. Draga (Waterstone), H. Fischer (Univ. Bern), G. Dalla Fontana (Univ. Padua), J. Gabrieli (CNR), D. Hardy (Univ. of Massachusetts), S. Hong (Korean Polar Inst.), S. Kaspari (Washington Univ.), N. Kehrwald (CNR), M. Kriews (AWI), A. Lutton (OSU), V. Mair (Prov. of Bolzano), V. Mikhalenko (Russian Acad. of Sci.), K. Oeggli (Univ. of Innsbruck), J. Olesik (OSU), G. Piffer (Waterstone), M. Rinaldi (Waterstone), U. Ruth (AWI), R. Seppi (Univ. of Pavia), U. Schotterer (Univ. of Bern), M. Schwikowski (PSI), A. Spolaor (CNR), B. Stenni (Univ. of Trieste), L.G. Thompson (OSU), D. Tonidandel (Prov. of Bolzano), C. Turetta (CNR), P. Vallelonga (Niels Bohr Inst.), D. Wilhelms-Dick (AWI).

Graduate Advisors (Total: 2) and Postdoctoral Sponsors (Total: 1)

Carlo Barbante (University of Venice, Italy) (Master, Doctoral and Post-doctoral advisor)
 Claude Boutron (LGGE, CNRS, Grenoble, France) (Doctoral advisor)

Thesis Advisees and Sponsored Postdoctoral Scholars

Student Advisees (Total: 0): None

Postdoctoral Scholars (Total: 4):

Current - Emilie Beaudon (2014-2015), Roxana Sierra Hernandez (2014-2015)
 Past - Chiara Uglietti (2011-2013), Anna Wegner (2013)