

Marianna D'Amico, Ph.D.

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PROFESSIONAL EXPERIENCE

01/06/2025 – CURRENT Roskilde, Denmark

POSTDOC RESEARCHER at AARHUS UNIVERSITY

Department of Environmental Science – Supervisor: Prof. Katrin Vorkamp

- ArcSolution Project: Arctic Pollution in a One Health Perspective – from Complex Challenges to Sustainable Solutions.

15/02/2024 – 31/05/2025 Venice, Italy

POSTDOC RESEARCH FELLOW at CA' FOSCARI UNIVERSITY OF VENICE

Ice Core and Environmental Geochemistry Lab – Supervisor(s): Prof. Barbara Stenni and Prof. Mauro Masiol

20/09/2019 – 20/09/2020 Venice, Italy

TUTOR at CA' FOSCARI UNIVERSITY OF VENICE

- Specialized educational tutoring activities for international students at Environmental Science Department of Ca' Foscari University. Translation and editing of documents.

01/10/2018 – 31/12/2018 Madrid, Spain

INTERN at UNIVERSIDAD POLITÉCNICA DE MADRID

- Project Assistant and Website Manager in the research group Sostenibilidad en la Construcción y en la Industria (Sustainability in the Construction sector and Industry).

EDUCATION AND TRAINING

01/09/2019 – 27/02/2024 Venice, Italy

PHD IN POLAR SCIENCES at CA' FOSCARI UNIVERSITY OF VENICE

Supervisor(s): Prof. Andrea Gambaro and Dr. Marco Vecchiato

Thesis title - Chemicals of Emerging Concern in the Polar Regions: Distribution, Sources, and Transport Processes

05/2022 – 08/2022 Toronto, Canada

INTERNATIONAL VISITING GRADUATE STUDENT at UNIVERSITY OF TORONTO

- As part of my PhD mandatory period abroad, I collaborated with Prof. Frank Wania's research group on the estimation of PCPs long-range transport potential and their behavior in the atmosphere.

09/2018 – 07/2019 Madrid, Spain

MASTER IN RESEARCH, MODELLING AND ANALYSIS OF ENVIRONMENTAL RISK at UNIVERSIDAD POLITÉCNICA DE MADRID

Thesis title: Evolution of natural and anthropogenic inputs of trace elements and organic pollutants in El Hito Lake (Cuenca) during historical period

11/07/2018 – 27/07/2018 Urbino, Italy

SUMMER SCHOOL IN PALEOCLIMATOLOGY at UNIVERSITÀ DEGLI STUDI DI URBINO CARLO BO

03/08/2015 – 28/08/2015 St. Petersburg and Karelia, Russia

SUMMER SCHOOL IN EVOLUTIONARY AND TAXONOMIC DIVERSITY OF MARINE INVERTEBRATES at ST. PETERSBURG STATE UNIVERSITY - WHITE SEA BIOLOGICAL STATION KARTESH

08/2014 – 11/2016 Copenhagen, Denmark

MSC IN CLIMATE CHANGE at UNIVERSITY OF COPENHAGEN

Thesis title: The role of atmospheric temperature, precipitation and water table position in long- and short-term emissions during the growing season

09/2010 – 05/2014 Rome, Italy

BSC IN GEOLOGY at UNIVERSITÀ DI ROMA "SAPIENZA"

Thesis title: Analysis of Etna's volcanic tremor associated with the lava fountain episode of February 19th, 2013

LANGUAGE SKILLS

Mother tongue(s): Italian, Spanish

Other language(s): English (proficient user)

French (basic user)

Russian (basic user)

DIGITAL SKILLS

R RStudio | StatSoft Statistica, STATA | QGIS: basic level | Microsoft Office package: Microsoft Word, Excel, PowerPoint

PUBLICATIONS

1. **D'Amico M.**, Wania F., Breivik K., Skov H., Spolaor A., Sørensen L. L., Gambaro A., Vecchiato M. 2025. Are ingredients of personal care products likely to undergo long-range transport to remote regions? *Environmental Science: Processes & Impacts*. 27 DOI: 10.1039/d5em00131e
2. **D'Amico M.**, Kallenborn R., Scoto F., Gambaro A., Gallet JC., Spolaor A., Vecchiato M., 2024. Chemicals of Emerging Arctic Concern in North-Western Spitsbergen Snow: Distribution and Sources. *Science of The Total Environment*. J. 908. <https://doi.org/10.1016/j.scitotenv.2023.168401>
3. Vecchiato, M., Barbante, C., Barbaro, E., Burgay, F., Cairns, W.R., Callegaro, A., Cappelletti, D., Dallo, F., **D'Amico, M.**, Feltracco, M., Gallet, J.C., Gambaro, A., Larose, C., Maffezzoli, N., Mazzola, M., Sartorato, I., Scoto, F., Turetta, C., Vardè, M., Xie, Z., Spolaor, A., 2024. The seasonal change of PAHs in Svalbard surface snow. *Environmental Pollution*. 340. <https://doi.org/10.1016/j.envpol.2023.122864>
4. **D'Amico, M.**, Gambaro, A., Barbante, C., Barbaro, E., Caiazza, L., Vecchiato, M., 2022. Occurrence of the UV-filter 2-Ethylhexyl 4-methoxycinnamate (EHMC) in Antarctic snow: First results. *Microchemical Journal*. 183. <https://doi.org/10.1016/j.microc.2022.108060>
5. Baneschi, I., Doveri, M., **D'Amico, M.**, Franceschi, L., Lelli, M., Lo Giudice, A., Maimone, G., Menichini, M., Norelli, F., Patrolecco, L., Pescatore, T., Rappazzo, C. A., Rauseo, J., Spataro, F., Caruso, G., Trifirò, S., Azzaro, M., and Vecchiato, M. 2023. Hydrological changes in Bayelva catchment (Western Svalbard-Norway): water discharge quantification and water-driven biogeochemical fluxes, EGU23-15825, <https://doi.org/10.5194/egusphere-egu23-15825>

RESEARCH PROJECTS

2025 – CURRENT ArcSolution (Arctic pollution in a One Health perspective – from complex challenges to sustainable solutions) Funded by the European Union under the Horizon Europe Program

2024 – 2025 iNEST (Interconnected Nord-Est Innovation Ecosystem) funded by European Union under Next Generation EU.

2021 – 2023 ICEtoFLUX (Hydrological changes in Arctic Environments and water-driven biogeochemical FLUXes) funded by the Italian Ministry for University and Research - Arctic Research Program (MUR-PRA).

2021 – 2022 EPSS (Emerging Pollutants in north – western Spitsbergen Snow: concentration distribution, sources, and transport processes) funded by the Research Council of Norway (Arctic Field Grant).

2020 – 2023 ECO AS:TRA (Emerging Contaminants in Antarctic Snow: sources and TRANsport) funded by the Italian National Antarctic Program (PNRA).

CONFERENCES AND SEMINARS

19/08/2024 – 24/08/2024 Pucon, Chile

SCAR OPEN SCIENCE Conference

I participated as a convenor for the session ‘Doing science better: Emerging technologies and their applications’ with Prof. Pavel Talay (Polar Research Center, Jilin University) and Dr. Peter Davis (British Antarctic Survey).

30/04/2023 – 04/05/2023 Dublin, Ireland

SETAC Conference

I presented two posters:

- M. D'Amico, F. Wania, K. Breivik, A. Gambaro, M. Vecchiato. *Are Ingredients of Personal Care Products Likely to Undergo Long Range Transport to Remote Regions?*
 - M. D'Amico, A. Massling, H. Skov, A. Spolaor, C. Christoffersen, A. Gambaro, M. Vecchiato. *Personal Care Products in Northern Greenland: First Results in Snow Samples from Station Nord.*
- 10/07/2022 – 15/07/2022 Hawaii, U.S.

Goldschmidt Conference

I presented one poster online:

- M. D'Amico, A. Gambaro, R. Kallenborn, F. Scoto, J.C. Gallet, A. Spolaor, M. Vecchiato. *The distribution of Contaminants of Emerging Concern in North-Western Spitsbergen: a journey from the atmosphere to the Arctic snow cover* DOI <http://dx.doi.org/10.46427/gold2022.8703>

08/11/2021 – 10/11/2021 Glasgow, Scotland

COP 26

I participated as an observer delegate for Ca' Foscari University of Venice. I published an article about my experience on the Ca' Foscari News website: <https://shorturl.at/Lbtu8>

02/11/2021 – 03/11/2021 Oslo, Norway

Svalbard Science Conference

I presented one poster:

- M. D'Amico, M. Vecchiato, A. Gambaro, R. Kallenborn, A. Spolaor. *Concentration and distribution of emerging pollutants in northwestern Spitsbergen snow.*

FIELD EXPERIENCE

17/7/2023 - 27/7/2023 – Ny Ålesund (Svalbard) – Freshwater sampling in the Bayelva River catchment as part of fieldwork activities of the project ICEtoFLUX.

11/4/2022 - 21/04/2022 – Ny Ålesund (Svalbard) – Snow sampling in 2 glaciers near Ny Ålesund as part of the fieldwork activities of the project ICEtoFLUX.

8/4/2021 – 10/5/2021 – Ny Ålesund (Svalbard) – Snow sampling in 5 glaciers in north-western Spitsbergen as part of the fieldwork activities of the AFG project EPSS.

10/08/2015 – 28/08/2015 – White Sea (Russia) – During the Summer School 'Evolutionary and Taxonomic Diversity of Marine Invertebrates' I collected marine invertebrates in the White Sea, Karelia (Russia) in the area close to the biological station Kartesh.

AWARDED GRANTS

12/2020 – 11/2021

Arctic Field Grant

The Arctic Field Grant supports fieldwork for students and researchers collecting data in Svalbard and Jan Mayen. Project title 'Emerging Pollutants in north – western Spitsbergen Snow: concentration distribution, sources, and transport processes.' (EPSS). Project number 322196