

Marie Dumont

Engineer Cheffe des Ponts, Eaux et Forêts (ICPEF)
Researcher and Head of the Snow Study Center
(CNRM, CNRS/Météo-France)

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EDUCATION

[2017] – Habilitation for supervising researches - *On the color of snow: measurements, modeling and applications*, Université Grenoble-Alpes, France
[2010] - PhD in Environmental Sciences – Retrieval of snow and ice covered area from remotely-sensed data” - Université Paris-Est, supervised by M. Bocquet and G. Krinner
[2006]- Research Master : Ocean, Atmosphere, Climate and Remote sensing (Pierre et Marie Curie University (Paris VI, France) ranked 2nd
[2002-2007] - Engineer diploma of Ecole Polytechnique (Palaiseau, France, ranked 11/500)

EMPLOYMENT

[2015-2020] - Researcher and head of research team at CEN (9 à 20 persons) (Grenoble, France)
[2017] - Guest scientist at WSL/SLF (2 months, Davos, Switzerland)
[2011-2015] - Researcher on snow optical properties (CEN, Grenoble, France)
[2011] - Post-doctoral fellowship at the Norwegian Polar Institute, 6 months (Tromsø, Norway)
[2006] – Member of the *Space Programme* of the World Meteorological Organization (Geneva, Switzerland)

CAREER BREAK 1 year 2014-2015 (child care)

RESEARCH METRICS

Publications in international rank A research journals : 99 (with one as first author in *Nature Geoscience*, one in *Nature Climate Change*, 3 in *Nature Communications* and one co first-author in *PNAS*)

Citations : 4614 (5450), h-index 39 (43) sources Publons with Google Scholar in italics.

Invited Talks : 18 ; Book chapters : 2

Communications in international conferences (oral and poster) : >150

In addition to academic communications, I am also giving numerous public audience communications (interviews, podcasts, documentary movies, radio et TV and conferences). The full list of communications and publications is available at <http://www.umn-cnrm.fr/spip.php?article632&lang=en>

AWARDS

- Arne Richter Award for Outstanding Early Career Scientists (European Geoscience Union) [2019]
- Early Career Scientist Awards of the International Union of Geodesy and Geophysics (IUGG) [2019]

- Best PhD award Aguirre-Basualdo (Paris University) [2011]
- Académie des sciences award [2006]

STUDENTS AND EARLY CAREER SCIENTISTS SUPERVISION

PhDs : 9 since 2013 ; Master student : 13 since 2012 ; Post-doctorate : 12 since 2017

Members of 10 PhD committee and evaluation committee

OTHER ACTIVITIES

- Invited professor for the snow international winter school in Switzerland, Finland, France and Canada [2016, 2017, 2018, 2023].
- Invited professor for the Institut Physique du Globe and the Université Grenoble Alpes [2016]
- Chairman for scientific sessions in international conferences (EGU, AGU, etc ..) [2015-]
- Organisation of the 4th, 6th and 9th Snow Science Winter School (Lautaret, France) 25 students and 8 international lecturers [2017, 2019, 2024]
- Member of the scientific committee of several conferences: 1st Snow Grain Size workshop (Grenoble, France) [2013], COST snow albedo workshop (Helsinki, Finland) [2016], LEFE National Assimilation Workshop (Brest, France) [2018], EARSeL snow and ice workshop (Bern, Switzerland) [2020], SnowHydro Conference (Bolzano/Bozen, Italy; Grenoble, France) [2020,2023].
- Member of the World Meteorological Organization (WMO) Executive Council Panel of Experts on Polar and High Mountain Observations, research and services (EC-PHORS) [2015- 2020]; Snow topical officer for the European Geophysical Union (EGU) [2018-2021]; Elected member of OSUG (Grenoble observatory for Universe Sciences) council [2013-2016]
- Associate editor for The Cryosphere (IF 5-year: 5.921) [2017-]
- Reviewer for international scientific journals and funding agencies
- Member of the CNRM researcher evaluation committee [2013-2018]

RESEARCH PROJECTS

Present funding : 1.9 M€ as PI since 2021 (projet ERC IVORI : <https://ivori.osug.fr/>)

Past funding : 525 k€ as PI [2016-2021] and 848 k€ as member [2011-]
