

PERSONAL INFORMATION

Federico Bianchi

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Date of birth: 03.08.1984

Nationality: Italian

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EDUCATION

2018 Docent in Atmospheric Science, University of Helsinki
2014 PhD, Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Switzerland
2009 Master in Chemistry (Summa cum laude - first-class honours), University of Milan, Italy
2006 Bachelor in environmental chemistry (110/110), University of Milan, Italy

CURRENT POSITION

12/2018 Assistant professor (tenure track), University of Helsinki
Group leader “Polar and high-Altitude Nucleation Dynamics in the Atmosphere”, Institute for atmospheric and earth system research, University of Helsinki

PREVIOUS POSITIONS

01/2018 – 11/2018 Postdoctoral Researcher Fellowship (Academy of Finland), University of Helsinki
07/2016 – 12/2017 Early Postdoc.Mobility fellowship (Swiss National Science Foundation), Department of Physics, University of Helsinki
10/2015 – 06/2016 Postdoctoral research fellow, Department of Physics, University of Helsinki
10/2014 – 09/2015 Postdoctoral research fellow, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland
02/2011 – 06/2014 PhD student, Paul Scherrer Institute, Switzerland
01/2010 – 12/2010 PhD student, University of Milano, Italy

MOBILITY

2018 Visiting scientist (2 Months), Beijing University of Chemical Technology, China
2011 – 2014 Marie Curie PhD student, Paul Scherrer Institute, Switzerland
2010 PhD student (1 year), University of Milan, Italy
2008 Erasmus exchange student, University of Valencia, Spain

GRANTS AND FELLOWSHIPS

2018 Postdoctoral Researcher Fellowship granted by the Academy of Finland.
Institute for atmospheric and earth system research, University of Helsinki, Finland.
365'197 Euro.
2016 Early Postdoc.Mobility fellowship granted by the Swiss National Science Foundation
Department of Physics, University of Helsinki, Finland.
70'250 CHF. (ca. 65'000 Euro)

AWARDS

2017 Arne Richter Award for Outstanding Early Career Scientists of the European Geosciences Union.
2016 Swiss Aerosol Prize to the best scientific publication in the field of international Aerosol research. The prize consists of CHF 5'000.
2015 Best poster award: Atmospheric Aerosol – Aerosol Processes and Properties, European Aerosol Conference EAC2015, 6-11 September, Milan (Italy).

PUBLICATIONS AND PRESENTATIONS

53 peer-reviewed publications, including 4 in *Nature*, 4 in *Science* (from which 1 as a first author), 3 in *Proc. Nat. Acad. Sci.*, 1 in *Nature Communications*, 2 in *Science Advances*.

ISI highly cited papers: 10

H-index: 18

30 oral presentations in international conferences (including invited talks, invited lectures and workshops).

Selected invited oral presentations:

- Award presentation at the Swiss Aerosol Group conference, Bern, Switzerland, November 2016.
- Medal lecture at the European Geophysical Union 2017, Vienna, Austria, April 2017.
- Invited seminar at the National Research Council, Bologna, Italy, September 2017.
- Invited seminar at the Peking University, Beijing, China, February 2018.
- Invited seminar at the Frankfurt University, Frankfurt, Germany, 2018.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2013 – present 1 co-supervised Master theses, 3 PhD theses, 1 postdoc.

2016 – present 2 on-going PhD student supervisions, 2 on-going postdoc supervisions.

TEACHING ACTIVITIES

2010 Lecturer – Environmental Chemistry, University of Milan, Italy

2016 – present Teacher and assistant in several summer and winter schools about nucleation and data analysis. Department of Physics, University of Helsinki, Finland.

2017 – present Supporting lectures on “Mass Spectrometry in Atmospheric Sciences” (English). Department of Physics, University of Helsinki, Finland.

COMMISSIONS OF TRUST

2013 Reviewer for 7 international scientific journals (E.g., *Atmos. Chem. Phys.*, *Environ. Sci. Technol.*, *Boreal Environ. Res.*, *Int. J. Anal. Chem.*, *J. Atmos. Chem.*, *J. Aerosol Sci.*, *ACS Earth Space Chem.*)

2017 Editor board member for *PeerJ*

2018 External reviewer, Deutsche Forschungsgemeinschaft (DFG)

SELECTED INTERVIEWS:

07.04.2017 *EGU Blogs*, How are clouds born?

25.05.2016 *Science*, Earth’s climate may not warm as quickly as expected, suggest new cloud studies.

26.05.2016 *Scientific American*, Cloud-Seeding Surprise Could Improve Climate Predictions.

30.05.2016 *Chemical and Engineering News*, Cloud-forming particles don’t need sulfuric acid to assemble, trio of studies show.

25.05.2016 *The Verge*, How to make clouds from pine trees: a recipe from physicists.

07.12.2014 *La Stampa*, Nel laboratorio più alto del mondo per studiare i segreti del clima.