

Francesco Pomati, CV

1. Personal information, including researcher ID

Francesco Pomati Group Leader, Senior Research Scientist
 Eawag: Swiss Federal Institute of Aquatic Science and Technology Department of Aquatic Ecology
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 Google Scholar: <https://scholar.google.ch/citations?user=9rlpdhcAAAAJ&hl=en>
 Birth: 05.07.1972, Varese (Italy)
 Nationality: Italian, Australian
 Languages: Italian (native), English (fluent), German (B2), French (B1)

2. Education

The University of New South Wales (Australia) / Doctor Of Philosophy (PhD) Microbiology, Sydney, NSW, 2004.
 University of Milan (Italy) / Graduate Diploma, Chemical Risk Assessment and Natural Resources Management, Milan, 1998.
 University of Milan (Italy) / Degree In Biological Sciences (BSc in Biology, MSc in Ecology), Milan, 1997.

3. Employment history including current position(s)

Eawag / Group Leader, Department of Aquatic Ecology, Dübendorf, 09.2011 – present
 ETH-Zürich / Lecturer, Institute of Integrative Biology, Zürich, 09.2012 – present.
 UCSD and Scripps Institution of Oceanography, La Jolla, CA, USA / Sabbatical Visiting Scientist, April-August 2017.
 Eawag: Swiss Federal Institute of Aquatic Science and Technology (Switzerland) / Postdoc, Centre for Ecology, Evolution and Biogeochemistry, Kastanienbaum (Switzerland), 10. 2008 - 09. 2011.
 Mario Negri Institute for Pharmacological Research (Italy) / Marie Curie Fellow, Department of Environmental Health, Milan, 07.2008 - 10.2008.
 Centre for Water and Waste Technology (Australia) / Associated Member, University of New South Wales, Sydney, 2008.
 University of New South Wales (Australia) / Vice-Chancellor's Post-Doctoral Fellow, School of Biotechnology and Biomolecular Sciences, Sydney, (Australia), 07.2005 – 08.2008.
 University of Insubria (Italy) / Postdoc, Department of Biotechnology and Molecular Sciences, Varese, 01.2004 – 07.2005.

4. Institutional responsibilities: 2015-2016 and 2019-2020 Deputy Department Head, currently managing Eawag Lake Monitoring database; in 2013, 2014, 2020 responsible for seminar series.

5. Approved research projects (past 5 years)

2019. Eawag discretionary funds for research. A Case Study for Big-Data Workflow in Applied Ecology. M. Baity-Jesi, C. Albert, F. Pomati [Baity-Jesi PI, 1 Postdoc]
 2019. Eawag discretionary funds for research. Towards high-dimensional ecology: do the nonlinear structures of trait distributions encode community dynamics? C. Albert, F. Pomati [Albert PI, 1 Postdoc]
 2018. SNF Lead Agency. Integrating High Resolution Monitoring and Trait-based Modelling to Understand and Predict Phytoplankton Dynamics. F. Pomati and A. Merico [Pomati 1 RA and 1 PhD, Merico 1 PhD]
 2018. Eawag discretionary funds for research. Environmental change effects on population densities of bloom forming cyanobacteria in Swiss lakes. F. Pomati, D. Bouffard and F. Lepori. [Pomati PI, 1 Postdoc]
 2017. SNF visiting. Understanding dynamics of lake phytoplankton community size spectra in relation to climate change and nutrient gradients. F. Pomati.
 2016. Eawag-ETH internal. Resilience of aquatic ecosystems in the face of nutrient loading: ecological and evolutionary dimensions. Co-applicant (Spaak et al.).
 2016. F.R.S.-FNRS, Belgium. Does coexistence theory predict chemical effects on biodiversity and ecosystem functioning? De Laender, Schäfer, Pomati. [Pomati Co-applicant, sharing 1 PhD student]
 2015. Eawag-ETH internal. Linking effects of chemical pollution from cells to ecosystems. Zupanic, Schuwirth, Spaak, Pomati. [Pomati Co-applicant]
 2015. Swiss National Science Foundation (SNF). Critical dynamics in phytoplankton communities? Albert, Ott, Pomati. [Pomati collaborator]
 2015. Norwegian Institute for Research, OKOSYSTEM. Pollution and ecosystem adaptation to changes in the environment. [Pomati Co-applicant (Nizzetto PI), sharing 1 postdoc]

2005-2014: 13 competitive grants (6 from SNF) of which 7 as PI.

6. Supervision of junior researchers at graduate and postgraduate level

Ewa Merz (PhD student, ongoing), Stefanie Merkli (MSc, ongoing), Jürg Spaak (PhD student, 2020, Co-supervised), Marie-Eve Monchamp (PhD, 2017), Michele Stravs (PhD, 2017, Co-supervised), Simone Fontana (PhD, 2017), Monge Solano (MSc, 2016), Giulia Benazzi (MSc, 2015), Stefan Gerber (MSc, 2013), Guido Domingo (PhD, 2012), Jamal Al-Tebrineh (PhD, 2009, Co-supervised), Rosalia Cavaliere (PhD, 2009, Co-supervised), Mina Popovic (MSc, 2008), Jason Woodhouse (MSc, 2008), Sara Castiglioni (PhD, 2006, Co-supervised), Chiara Orlandi (MSc, 2006).

7. Teaching activities (past 5 years)

2015 - present. Aquatic Ecology, Environmental Science Department, ETH-Zurich & University of Zurich, Switzerland.
2012 - present. Aquatic ecology, Integrated Practical Course, ETH-Zurich, Switzerland.

8. Memberships in panels, boards, etc., and individual scientific reviewing activities (past 5 years)

Editor of Frontiers in Microbiology (Aquatic Microbiology). Reviewer for: Ecology, Ecology Letters, Methods in Ecology and Evolution, Oikos, PNAS, Journal of Ecology, PLOS ONE, Environmental Science and Technology, Limnology and Oceanography, FEMS Microbial Ecology, Journal of Phycology, Science of the Total Environment, Ecotoxicology, Aquatic Toxicology, Environmental Toxicology and Pharmacology, Environmental Pollution, Water Research, Freshwater Biology, Aquatic Sciences, Journal of Applied Microbiology, Aquatic Ecology, Environmental Microbiology, Biology Letters, Environmental Toxicology and Chemistry, Hydrobiologia, Harmful Algae, Global Change Biology, Canadian Journal of Fisheries and Aquatic Sciences. **PhD thesis reviewer:** Urs Hofmann ETH-Zurich (2020), Yannick Bayona, INRA, Écologie et Santé des Écosystèmes, Rennes, France (2014); Christoph Mensens, Ghent University, Belgium (2016). Reviewer for Australian Research Council, and Deutsche Forschungsgemeinschaft (DFG) – DynaTrait programme.

9. Active memberships in scientific societies, fellowships in renowned academies (past 5 years)

Member of Association for the Sciences of Limnology and Oceanography (ASLO), Ecological Society of America (ESA), Society for Environmental Toxicology and Chemistry (SETAC). Member of SETAC advisory groups: Modelling and monitoring impacts of acute stress events on ecosystems; Evolutionary and multi-generational effects of chemicals.

10. Organisation of conferences (past 5 years)

ESA meeting session chair: “The consequences of anthropogenic chemical pollution for community and ecosystem dynamics” (2015). SETAC Europe and World meetings sessions: Scales and interactions in community and ecosystem ecotoxicology (2015).

11. Prizes, awards, fellowships

2018: Prize for Science Visualisation, La Rencontre: ArtSci exhibition, ETH-Zurich - for sonification of plankton biodiversity data. 2007: Finalist for the Australian Museum Eureka Prize People’s Choice Award for Science. 2005: The University of New South Wales Vice-Chancellor's Postdoctoral Fellowship, Sydney, Australia. 2002: Adrian Lee Scholarship, School of Biotechnology and Biomolecular Sciences, The University of New South Wales, Sydney, Australia. 2001: International Post-graduate Research Scholarship (IPRS), and University Post-graduate Research Scholarship (UPRS), The University of New South Wales, Sydney, Australia. 1998: Best undergraduate research study award, Rotary Club, Varese, Italy.

12. Career breaks

1998-1999. Civil service.