

PERSONAL INFORMATION

Alena Bartonova



Position: Research Director (EU research collaboration); Senior scientist – Department of Industrial and Urban Pollution, NILU, POB 100, N-2027 Kjeller, Norway (employed since 1990)

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ORCID: 0000-0002-3350-1202

Google Scholar: <https://scholar.google.no/citations?user=XVOCnmQAAAAJ>

Sex Female | **Nationality** Czech

My core research area is environmental exposure assessment, building on a combination of mathematical statistical methods, air quality management expertise and environmental health competencies. I strive for high levels of interdisciplinary collaboration and involvement of the public. I have initiated and subsequently led several interdisciplinary projects funded by the European Union research programs, aiming to address science-policy interface related to environmental health. These projects were performed in partnership between environmental sciences, life sciences, technology, and social sciences. As leader of the European Topic Centre Human Health and the Environment (with more than 90 participating scientists), I value a meaningful dialogue with environmental agencies, such as with the European Environment Agency or the Environment Agency Abu Dhabi, on matters related to the development and implementation of environmental strategies and legislation. I strive to underpin this dialogue with scientific research and other knowledge, relevant to the socio-cultural context.

WORK EXPERIENCE

Dates

08/1990 – current

01/2022 – current

03/2022 – 12/2025

07/2022 – 06/2025

11/2020 – 04/2024

08/2018 – 12/2021

08/2017 – current

10/2015 – current

12/2014 – 06/2020

Position held since 2014. Responsibilities.

Scientist/Senior Scientist/Research Director, NILU

Manager/lead, European Topic Centre for Human Health and the Environment (Framework Partnership Contract OCP/EEA/CAS/2021/005 – ETC HE with the European Environment Agency)

Project manager and principal investigator, “DIGG-MIN-SKOLE: Transformative integration between digital technologies and humans for sustainable indoor environment”, Research Council of Norway (project number 331830, 2022-2025, 12 partners)

NILU principal investigator, “WeBASOOP: Research Reinforcing in the Western Balkans in Offline and Online Monitoring and Source Identification of Atmospheric Particles”, Horizon Europe project no. 101060170 , coordination and support action addressing call HORIZON-WIDERA-2021-ACCESS-02.,

NILU principal investigator, “VIDIS: Virtual centre for distributed atmospheric sensing for reduction of pollution pressures”, H2020 project no. 952433, coordination and support action addressing call WIDESPREAD-01-2018-2019.

Manager/lead, European Topic Centre for Air, Transport, Noise and Industry 2019 -2021 (Framework Partnership Contract OCP/EEA/ACC/18/001-ETC/ATNI with the European Environment Agency) (c/o NILU)

NILUs representant in CIENS Research Forum (Oslo Centre for Interdisciplinary Environmental and Social Research, a collaboration between environmental research institutes and universities in Oslo area)

NILU, Research Director for EU research collaboration (25%). Scientific and strategic leadership and coordination of research activities, research project acquisition.

NILU, Research Director NILU UAE, Scientific manager, Framework Contract “Scientific Support Services – Air Quality Management in the Emirate Abu Dhabi”, Environment

01/2013 – 06/2014

Agency Abu Dhabi.

NILU, Research Director NILU UAE; head of department (air quality monitoring, quality systems, assessments including indoors, for Environment Agency Abu Dhabi). Personnel, scientific and strategic leadership, coordination of research activities, research, project acquisition.

EDUCATION AND TRAINING

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|-----------|---|-------|
| 2013 | PhD Environmental Sciences
Faculty of Natural Sciences, Charles University, Prague Czech Republic
Thesis “The role of exposure assessment in development of risk reduction strategies for air quality” | PhD |
| 1983 | RNDr (Rerum Naturalium Doctoris)
Charles University, Faculty of Mathematics and Physics, Prague, Czechoslovakia
Probability and mathematical statistics; thesis “Asymptotic methods in reliability theory” | RNDr. |
| 1987-1990 | Postdoctoral training
NILU Norwegian Institute for Air Research. Methods for assessment of exposure from air. | |
| 1978-1983 | M.Sc. equivalent in Mathematical Statistics and Probability Theory
Charles University, Faculty of Mathematics and Physics, Prague, Czechoslovakia
Probability theory, mathematical statistics, stochastic processes, thesis “Asymptotic methods in reliability theory” | MSc |

Personal and professional skills

- Scientific expertise in environmental issues, related to environment and health, environmental exposures, environmental impacts, air quality, indoor environment, including the role of society in environmental protection.
- Demonstrated ability to lead knowledge teams towards common goals, leading of change processes.
- Demonstrated management skills relevant to development and implementation of complex knowledge projects.
- Demonstrated knowledge sharing and mentoring on science matters as well as research management, internally and externally.
- Interest in trans-disciplinarity (all societal actors need to contribute to solutions)
- Interdisciplinary and intercultural communication based on project experience (most projects that I lead or have a prominent role in are inter- and transdisciplinary), e.g.,
 - HENVINET (Health and Environment Network, 2006-2009, EU FP6 contract no. GOCE-CT-2006-037019), development of frameworks and tools for assessments of complex environmental issues
 - CITI-SENSE project (www.citi-sense.eu, 2012-2016, Grant Agreement no. 308524 funded from EU Research and Innovation FP7), introduction of low cost sensor technologies for use in environmental and exposure assessments
 - “DIGG-MIN-SKOLE: Transformative integration between digital technologies and humans for sustainable indoor environment”, introduction of user perspective into management of indoor environment in schools
 - “VIDIS: Virtual centre for distributed atmospheric sensing for reduction of pollution pressures”, H2020 project no. 952433, 2020-2023, coordination and support action addressing call WIDESPREAD-01-2018-2019, <https://vidis-project.org/>, development of air quality assessment methods in Western Balkan.
- Scientific services and projects executed in Norway, EU, Europe, India, UAE

- Wide interest in opportunities to reduce personal environmental impact.

Organisational / managerial skills

Scientific project management (national, international), e.g.:

- Manager, European Topic Centre for Human health and the environment, annual budget approx. 1,5 mil Euro contribution, <https://www.eionet.europa.eu/etcs/etc-he>
- Co-ordinator, DIGG-MIN-SKOLE, Research Council of Norway (project number 331830, 2022-2025, 12 partners including academia, municipalities, technological companies),
- Manager, European Topic Centre for Air, Transport, Noise and Industry, annual budget approx. 1,5 mil Euro, <https://www.eionet.europa.eu/etcs/etc-atni>
- Research Director, NILU UAE – personnel responsibility for 15 persons, NILUs office in Abu Dhabi, UAE
- Co-ordinator, EU FP7 large scale project (29 partners including 11 small and medium size enterprises; duration 4 years) (<https://cordis.europa.eu/project/id/308524>, grant agreement no 308524), total budget approx. 15 million Euro
- Co-ordinator, EU FP6 small and medium size targeted R&D project ENVIRISK (7 partners, 3 years, total budget 2,5 mill Euro, contract no SSPE-CT-2005-044232) and EU FP6 coordination action (HENVINET, 26 partners 3,5 years, total budget 3,5 mill Euro, contract no. GOCE-CT-2006-037019)
- I served as a board and founding member of a CSO “Stiftelsen Solglott”(2009-2016), an as a board member and chairman of CSO “Tsjekkisk-norsk forum”(2003-2008).

 ADDITIONAL INFORMATION

Publications

I am a co-author of more than 90 peer-reviewed publications, with h-index 36 and over 5800 citations (Google Scholar, 27.2.2024); WoS h/index 29 (3200 citation).

<http://www.linkedin.com/pub/alena-bartonova/93/b81/259>

<https://scholar.google.no/citations?user=XV0CnmQAAAAJ>

<https://orcid.org/0000-0002-3350-1202>

<https://www.webofscience.com/wos/author/record/B-9223-2013>

Scientific activities

- I served as a Member, European Commission Scientific Committee for Environmental Health Risks SCHER (http://ec.europa.eu/health/scientific_committees/) (2013-2016)

Conferences

- Since 2007, I am co-organizing every second year conferences WeBIOPATR “Particulate matter: research and management in West Balkan”, Belgrade Serbia (nine events).
- I am serving on scientific committee of ASIC Air sensors International Conference, CA, USA, 2022 and 2024.

Advisory activities

- I served as a member (2009-2012) and Vice-Chair (2011-2012) of Expert advisory group for EU R&D FP7 area Environment (including Climate Change) (2009-2012), and as a member of Advisory Group for the area “City of Tomorrow” of the EU 5th RP for research and development (2000-2002)

Courses taught

- In 2023/24, I serve as a Member of National Reference Group for HE area “Health”
- In 2013, I served as Temporary Adviser, WHO ECEH Bonn, REVIHAAP project.
- In 2013/2014/2018/2020/2022/2024, I taught a 3 credit course at Charles University, Faculty of Science, Institute of Environmental Studies, titled “Environment, health and development of policies”, graduate level.
- In 2022 and 2023, I co-organized 1-week Summer School “Innovative methods in air pollution and atmospheric aerosols monitoring and modelling”
- In 2015, I taught a three-day workshop on Air Quality Management, jointly organized by the Supreme Council of Health, Qatar and WHO Eastern Mediterranean Regional

Other activities

Office. In 2013, I contributed to a similar course for the Supreme Council of Health.

- I provided short course on “Air quality” for professional education of employees in public sector Health and Environment , bi-annually 2011 – 2017
 - I provide internal training through mentoring on EU R&D&I framework programs
- I served as proposal evaluator for EU R&D&I projects for 5th and 6th framework program (2000-2002, 2005-2006), as a proposal and project evaluator for EU H2020 (2016, 2018) and HE (2023/2024)

I served as proposal evaluator for the Bulgarian Ministry of Higher Education (2017-2018), for the Cyprus Research Promotion Agency, (2017-2024), for Danish Research Fund 2020, 2021 and 2022, and for UK, IT, FR and NL research agencies (2020-2024). I occasionally serve as a reviewer of research institutes’ research programs (BE, NL, NZ).

Information to public and professionals

- CITI-SENSE project: <https://co.citi-sense.eu/>
<https://www.youtube.com/watch?v=X6pYcwALVRU>
<https://developer.epa.gov/smart-city-air-challenge-webinar-series/>
- Low-cost sensor networks: <https://asic.agrc.ucdavis.edu/current-speakers>
<https://www.nilu.no/2021/02/nilu-bysykelstativer-mikrosensorer-malestasjoner-luftkvalitet/>
- Air quality management: <https://www.youtube.com/watch?v=sfSLHTjZeGI>
<https://www.youtube.com/watch?v=cSkb7qb4TYU>