

PERSONAL INFORMATION

Adelaide Dinoi

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Ph.D. in Physics, Physics Department-University of Salento, Lecce.

Master's degree in Physics, Physics Department-University of Salento, Lecce.

RESEARCH ACTIVITIES

My **research activity** focuses on 1) monitoring of atmospheric pollutants and evaluation of their impact on air quality, climate change, and public health.

2) Characterization of the chemical/physical properties of aerosols in the lower troposphere by a wide variety of instrumental techniques.

3) Study of dispersion processes, chemical transformations and long-range transport. Interest to identification and characterization of nanoparticles and new particle formation events (NPF); study of atmospheric aerosol optical properties and chemical characterization of carbonaceous species; impact evaluation of vehicles and shipping emissions on air quality based on experimental observations, emission inventory analysis, and numerical modeling.

Laboratory activity: Long-term experience in Instrumental checks, management, and calibration of different aerosol and gas sampling devices together with validation and data analysis, acquired in the ECO Observatory, GAW/ACTRIS infrastructure.

WORK EXPERIENCES

From **July 2020 to now**. Researcher at the Institute of Atmospheric Sciences and Climate (ISAC-CNR), National Research Council.

March 2013 - June 2020. Post-doc position at the Institute of Atmospheric Sciences and Climate (ISAC-CNR), National Research Council.

September 2007 - October 2012. Postdoc fellowship at the Physics Department University of Salento.

SPIN-OFF

From **January 2012 to now** Co-founder and consultant of RESEAUX S.r.l. (**RE**search **E**nvironmental **A**pplications **U**sing **e**xperiments and simulations) Spin-Off University of Salento (www.reseaux.it).

EDITORIAL ACTIVITY

Member of the Editorial Board of the journal Annals of Applied Sciences (AAS) since Sep 2021.

Member of the Editorial Board of the journal Pollutants (MDPI) since Mar 2020.

Reviewer for: Atmosphere, Arabian Journal of Geosciences, Remote Sensing, Frontiers in Environmental Science, Measurement.

Supervision of Master and First level degree theses at University of Salento (from 2018) and tutor of high school students.

- 2017/18-**Maria Lucia Vaglio**/ Supervisor First level degree theses. Corso di Laurea Triennale in Scienze e Tecnologie per l'Ambiente.
- 2018/2019-**Salvatore Vergine**/ Supervisor Master's degree theses. IMPERIAL COLLEGE LONDON. Faculty of Engineering. Department of Civil and Environmental Engineering.
- 2021-**Giordana Galvani**/ Internship supervisor. First level degree theses. Corso di Laurea Triennale in Scienze e Tecnologie per l'Ambiente.
- 2023/24-**Giuseppe Nicola Maria Carlucci**/ Supervisor First level degree theses. Corso di Laurea Triennale in Scienze e Tecnologie per l'Ambiente.
- 2022-2026-**Chaira Mitrangolo**/ Supervisor Ph.D. Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali.

LAST 5 YEARS PUBLICATIONS

- 1) MR Guascito, MG Lionetto, F Mazzotta, M Conte, ME Giordano, A. Dinoi, et al. . Characterisation of the correlations between oxidative potential and in vitro biological effects of PM10 at three sites in the central Mediterranean. Journal of Hazardous Materials Volume 448, 15 April 2023, 130872.
- 2) M Conte, A Dinoi, FM Grasso, E Merico, MR Guascito, D Contini Concentration and size distribution of atmospheric particles in southern Italy during COVID-19 lockdown period Volume 295, 15 February 2023, 119559.
- 3) A Dinoi, D Gulli, K Weinhold, I Ammoscato, CR Calidonna, et al. Characterization of ultrafine particles and the occurrence of new particle formation events in an urban and coastal site of the Mediterranean area. Atmospheric Chemistry and Physics 23 (3), 2167-2181
- 4) A Dinoi, M Feltracco, D Chirizzi, S Trabucco, M Conte, E Gregoris, et al.. A review on measurements of SARS-CoV-2 genetic material in air in outdoor and indoor environments: Implication for airborne transmission. Science of the Total Environment 809,151137.
- 5) D. Cesari, E. Merico, F.M. Grasso, A. Dinoi, M. Conte, A. Genga, M. Siciliano, E. Petralia, M. Stracquadanio, D. Contini. Analysis of the contribution to PM10 concentrations of the largest coal-fired power plant of Italy in four different sites. Atmospheric Pollution Research **2021**, 12, 8, <https://doi.org/10.1016/j.apr.2021.101135>.
- 6) Lionetto, M.G.; Guascito, M.R.; Giordano, M.E.; Caricato, R.; De Bartolomeo, A.R.; Romano, M.P.; Conte, M.; **Dinoi, A.**; Contini, D. Oxidative Potential, Cytotoxicity, and Intracellular Oxidative Stress Generating Capacity of PM₁₀: A Case Study in South of Italy. *Atmosphere* **2021**, 12, 464. <https://doi.org/10.3390/atmos12040464>.
- 7) Donato, A.; **Dinoi, A.**; Pappaccogli, G. Impact on Ultrafine Particles Concentration and Turbulent Fluxes of SARS-CoV-2 Lockdown in a Suburban Area in Italy. *Atmosphere* **2021**, 12, 407.
- 8) MR Guascito, MG Lionetto, F Mazzotta, M Conte, ME Giordano, A. Dinoi, et al. . Characterisation of the correlations between oxidative potential and in vitro biological effects of PM10 at three sites in the central Mediterranean. Journal of Hazardous Materials Volume 448, 15 April 2023, 130872.
- 9) M Conte, A Dinoi, FM Grasso, E Merico, MR Guascito, D Contini Concentration and size distribution of atmospheric particles in southern Italy during COVID-19 lockdown period Volume 295, 15 February 2023, 119559.
- 10) A Dinoi, D Gulli, K Weinhold, I Ammoscato, CR Calidonna, et al. Characterization of ultrafine particles and the occurrence of new particle formation events in an urban and coastal site of the Mediterranean area. Atmospheric Chemistry and Physics 23 (3), 2167-2181
- 11) A Dinoi, M Feltracco, D Chirizzi, S Trabucco, M Conte, E Gregoris, et al.. A review on measurements of SARS-CoV-2 genetic material in air in outdoor and indoor environments: Implication for airborne transmission. Science of the Total Environment 809,151137.
- 12) D. Cesari, E. Merico, F.M. Grasso, A. Dinoi, M. Conte, A. Genga, M. Siciliano, E. Petralia, M. Stracquadanio, D. Contini. Analysis of the contribution to PM10 concentrations of the largest coal-fired power plant of Italy in four different sites. Atmospheric Pollution Research **2021**, 12, 8, <https://doi.org/10.1016/j.apr.2021.101135>.

- 13) **A. Dinoi**, D. Gulli, I. Ammoscato, C.R. Calidonna, D. Contini. Impact of the Coronavirus Pandemic Lockdown on Atmospheric Nanoparticle Concentrations in Two Sites of Southern Italy. *Atmosphere* 2021, 12 (3), 352.
- 14) D. Chirizzi, M. Conte, M. Feltracco, **A. Dinoi**, E. Gregoris et al. SARS-CoV-2 concentrations and virus-laden aerosol size distributions in outdoor air in north and south of Italy. *Environment International*, 2021, 146, 106255.
- 15) **A. Dinoi**, K. Weinhold, A. Wiedensohler, D. Contini. Study of new particle formation events in Southern Italy. *ATMENV* 2021, 244, 117920, 10.1016/j.atmosenv.2020.117920.
- 16) **A. Dinoi**, M. Conte, F. M. Grasso, D. Contini. Long-Term Characterization of Submicron Atmospheric Particles in an Urban Background Site in Southern Italy. *Atmosphere* 2020, 11(4), 334; <https://doi.org/10.3390/atmos11040334>.

Lecce, 31/10/2024

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base al D. Lgs. 196/2003 e al Regolamento UE 2016/679"