

PERSONAL INFORMATION

Adelaide Dinoi

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WORK EXPERIENCES

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

March 2015 - June 2020. Post-doc position at the Institute of Atmospheric Sciences and Climate (ISAC-CNR), National Research Council.

June 2013 - February 2015. Contract Research at the ISAC-CNR, Institute of Atmospheric Sciences and Climate, Division of Lecce, in the framework of I-AMICA Project "High Technology Infrastructure for Environmental and Climate Monitoring" - Code PONA3_00363, CUP B61D11000220007.

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

January - February 2007. **Short term mobility** (research grant) at the Institute of Planetary Research DLR – German Aerospace Center Berlin (Germany).

November-December 2015 - Short Term Mobility (research grant) at the Leibniz Institute for Tropospheric Research of Leipzig (Aerosol and Cloud Department) Leipzig-Germany.

October-November 2021-Short Term Mobility (research grant) at the Institute for Atmospheric and Environmental Sciences, Goethe University. Frankfurt-Germany.

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).

EDUCATION AND TRAINING

July 2007- Ph.D. in Physics, Physics Department-University of Salento, Lecce. Supervisor Prof. Sergio Fonti sergio.fonti@le.infn.it

April 2001 - Master's degree in physics, Physics Department-University of Salento, Lecce. Supervisor Prof. Sergio Fonti sergio.fonti@le.infn.it

2-6 July 2018 International Summer School-Conference "SORBETTO" SOLar Radiation Based Established Techniques for aTmospheric Observation, CNR Headquarter and Sapienza University, Italy.

1 June 2009, Giornata Studio "Tecniche di monitoraggio dei microinquinanti organici: aspetti tecnologici e tecnico-normativi". Arpa Puglia- Dipartimento Provinciale di Taranto, Via Anfiteatro, 8 Taranto.

14-19 December, 2009 Prima Scuola Italiana di Aerosol (IAS), Palazzo Turtur, Molfetta, Bari.

3-7 December, 2007 Aerosol School 2007. " Sorgenti, Tecniche di monitoraggio e Caratterizzazione" Chiostro S. Maria Del Carmine Piazza Tancredi, 7 Lecce.

14 May – 1 June, 2007 Corso di formazione "Valutazione dei campi elettromagnetici". Servizio Prevenzione e Protezione Dipartimento di Fisica, Università del Salento, Lecce.

29-31 January, 2007 Corso Teorico di microscopia elettronica a scansione (SEM) e microanalisi (EDX). Dipartimento di Fisica, Università del Salento, Lecce.

10 November, 2005 Corso di formazione "La sicurezza nei laboratori scientifici e didattici". Dipartimento di Fisica, Università del Salento, Lecce.

10-15 October, 2005 Scuola Nazionale di Astrofisica VIII Ciclo, "Il sistema solare esterno e la missione Cassini-Formazione Stellare". Centro Studi S. Maria Maddalena, Volterra, Pisa.

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.

SUPERVISOR

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.

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1
French	A2	A2	A2	A2	A2

Computer skills

Operating systems: good command of Windows, Document processing: Microsoft Word, Microsoft package: PowerPoint, Excel. Technical software: good command of R and IGOR.

Projects

I was actively involved in various scientific monitoring campaigns and national/international projects:

OT4Clima: Advanced Earth Observation Technologies for studying climate change impacts on the environment. National Industrial Research program PON 2014-2020.

ECOMOBILITY: “ECOLOGICAL supporting for traffic Management in COASTAL areas BY using an INTELLIGENT sYSTEM” call “Standard+” Italia-Croazia 2018-2020 3

ISMAEL: Integrated System for the Assessment of Environmental impacts in Logistics activities. Environmental monitoring and prediction for green ports (2017-2019).

ENEL: source apportionment of PM10 collected simultaneously in four sites located in the Puglia region, South-Eastern Italy (2013-2016)

I-AMICA: Progetto PONA3_00363 Infrastruttura di Alta Tecnologia per il Monitoraggio Integrato Climatico-Ambientale (I-AMICA) – CUP B61D1100020007 (2013-2017).

POSEIDON: POLLUTION monitoring of Ship Emissions, an Integrated approach for harbours of the Adriatic basin. European Territorial Cooperation MED (2014-2015).

CESAPO: Contribution of Emission Sources on Air quality of the Port-cities in Greece and Italy. Interreg Greece and Italy (2011-2014).

MARS: Monitoraggio Atmosferico tramite Remote Sensing” A study on the potential applications of satellite data on air quality. Avviso 19/2009 “Ritorno al Futuro” del P.O. FSE Puglia 2007-2013, Asse VI (2011-2012).

SIMPA: Sistema Integrato per il Monitoraggio del Particolato Atmosferico. Progetto strategico Regione Puglia (2004-2007).

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) Donateo, 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) **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.
- 9) R. Cesari, A. Genga, R. Buccolieri, S. Di Sabatino, M. Siciliano, T. Siciliano, **A. Dinoi**, A. Maurizi, P. Ielpo. Combining Chemical Composition Data and Numerical Modelling for the Assessment of Air Quality in a Mediterranean Port City. *Applied Sciences* 2021, 11 (5), 2181.
- 10) 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.
- 11) **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](https://doi.org/10.1016/j.atmosenv.2020.117920).
- 12) **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>.
- 13) M. Conte, E. Merico, D. Cesari, **A. Dinoi**, F. M. Grasso, A. Donateo, M.R. Guascito, D. Contini. Long-term characterisation of African dust advection in south-eastern Italy: Influence on fine and coarse particle concentrations, size distributions, and carbon-content. *Atmospheric Research*. Volume 233, 1 March 2020, 104690.
- 14) Lionetto, M. G., Guascito, M. R., Caricato, R., Giordano, M. E., De Bartolomeo, A. R., Romano, M. P., Conte, M., **Dinoi, A.**, Contini, D. Correlation of oxidative potential with ecotoxicological and cytotoxicological potential of PM10 at an urban background site in Italy. *Atmosphere* 2019, 10(12), 733; <https://doi.org/10.3390/atmos10120733>.
- 15) Vidorni, G., Sardella A., De Nuntiis P., Volpi F., **Dinoi A.**, Contini D., Comite V., Vaccaro C., Fermo P., and Bonazza A. Air pollution impact on carbonate building stones in Italian urban sites. *European Physical Journal Plus*, Volume 134, Number 9, (2019).
- 16) Merico, E., **Dinoi A.**, and Contini D. Development of an integrated modelling-measurement system for near-real-time estimates of harbour activity impact to atmospheric pollution in coastal cities. *Transportation Research Part D: Transport and Environment*, Volume 73, p.108-119, (2019).
- 17) A. Donateo, T. Lo Feudo, A. Marinoni, **A. Dinoi**, E. Avolio, E. Merico, C. R. Calidonna, D. Contini, P. Bonasoni. Aerosol optical properties on three GAW observatories in the Central Mediterranean. *Atmosphere* 2018, 9(10), 369; [doi:10.3390/atmos9100369](https://doi.org/10.3390/atmos9100369).
- 18) **A. Dinoi**, D. Cesari, A. Marinoni, P. Bonasoni, A. Riccio, E. Chianese, G. Tirimberio, A. Naccarato, F. Sprovieri, V. Andreoli, S. Moretti, D. Gulli, C. R. Calidonna, I. Ammoscato, D. Contini. Inter-comparison of carbon content in PM2.5 and PM10 collected at five measurement sites in Southern Italy. *Atmosphere* 2017, 8(12), 243; [doi:10.3390/atmos8120243](https://doi.org/10.3390/atmos8120243).

- 19) D. Cesari, E. Merico, **A. Dinoi**, A. Marinoni, P. Bonasoni, D. Contini. Seasonal variability of carbonaceous aerosols in an urban background area in Southern Italy. *Atmospheric Research* 2018, Volume 200, p.97-108.
- 20) R. Cesari, R. Buccolieri, **A. Dinoi**, A. Maurizi, T.C. Landi, S. Di Sabatino. Influence of Ship Emissions on Ozone Concentration in a Mediterranean Area: A Modelling Approach. *International Technical Meeting on Air Pollution Modelling and its Application ITM 2016: Air Pollution Modeling and its Application XXV*, pp 317-321.
- 21) Cesari, D., De Benedetto G.E., Bonasoni P., Busetto M., **Dinoi A.**, Merico E., Chirizzi D., Cristofanelli P., Donato A., Grasso F.M., et al. Seasonal variability of PM2.5 and PM10 composition and sources in an urban background site in Southern Italy. *Science of the Total Environment* 2018, Volume 612, p.202-213
- 22) D. Chirizzi, D. Cesari, M.R. Guascito, **A. Dinoi**, L. Giotta, A. Donato, D. Contini. Influence of Saharan dust outbreaks and carbon content on oxidative potential of water-soluble fractions of PM2.5 and PM10, *Atmospheric Environment* 2017, Volume 163, p.1-8.
- 23) P. Cristofanelli, M. Busetto, F. Calzolari, I. Ammoscato, D. Gulli, **A. Dinoi**, C. R. Calidonna, D. Contini, D. Sferlazzo, T. Di Iorio, S. Piacentino, A. Marinoni, M. Maione and P. Bonasoni. Investigation of reactive gases and methane variability in the coastal boundary layer of the central Mediterranean basin. Ref.: Ms. No. ELEMENTA-D-16-00035R1, Vol 5. 2017.
- 24) E. Merico, A. Gambaro, A. Argiriou, A. Alebic-Juretic, E. Barbaro, D. Cesari, L. Chasapidis, S. Dimopoulos, **A. Dinoi**, A. Donato, C. Giannaros, E. Gregoris, A. Karagiannidis, A.G. Konstandopoulos, T. Ivošević, N. Liora, D. Melas, B. Mifka, I. Orlić, A. Poupkou, K. Sarovic, et al. Atmospheric impact of ship traffic in four Adriatic-Ionian port-cities: Comparison and harmonization of different approaches. *Transportation Research Part D: Transport and Environment*, Volume 50, p. 431-445 (2017).
- 25) D. Chirizzi, D. Cesari, M.R. Guascito, **A. Dinoi**, L. Giotta, A. Donato, D. Contini. Characterization of the oxidative potential of water soluble fraction of atmospheric aerosol and its correlation with carbon concentrations, 6th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements 2016, p.17-21, (2016).
- 26) E. Merico, A. Donato, A. Gambaro, D. Cesari, E. Gregoris, E. Barbaro, **A. Dinoi**, G. Giovanelli, S. Masieri, D. Contini. Influence of in-port ships emissions to gaseous atmospheric pollutants and to particulate matter of different sizes in a Mediterranean harbour in Italy. *Atmospheric Environment*, Volume 139, p. 1-10 (2016).
- 27) R. Buccolieri, R. Cesari, **A. Dinoi**, A. Maurizi, F. Tampieri, S. Di Sabatino. Impact of ship emissions on local air quality in a Mediterranean city's harbour after the European sulphur directive. *International Journal of Environment and Pollution*, Volume 59, Issue 1, p.30-42, (2016) ISSN 0957-4352.
- 28) **A. Dinoi**, A. Donato, F. Belosi, M. Conte, D. Contini. Comparison of atmospheric particle concentration measurements using different optical detectors: Potentiality and limits for air quality applications. *Measurement* (2016) ISSN 0263-2241.
- 29) M. Conte, A. Donato, **A. Dinoi**, F. Belosi, D. Contini. Case Study of Particle Number Fluxes and Size Distributions during Nucleation Events in Southeastern Italy in the summer. *Atmosphere* 2015, 6(7), 942-959; doi:10.3390/atmos6070942 ISSN 2073-4433.
- 30) D. Contini, A. Donato, A. Gambaro, A. Argiriou, D. Melas, D. Cesari, A. Poupkou, A. Karagiannidis, A. Tsakis, E. Merico, R. Cesari, **A. Dinoi**. Impact of Ship Traffic to PM2.5 and Particle Number Concentrations in Three Port-Cities of the Adriatic/Ionian Area. *International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering*, vol. 9 n.4, pp 21-25(2015) ISSN 1307-6892.
- 31) M.R. Perrone, **A. Dinoi**, S. Becagli, R. Udisti. Chemical composition of PM1 and PM2.5 at a suburban site in southern Italy. *International Journal of Environmental Analytical Chemistry* 94 (2014), 127-15 DOI:10.1080/03067319.2013.791c978 ISSN 0306-7319.
- 32) MR Perrone, S. Becagli, JA Garcia Orza, R. Vecchi, **A. Dinoi**, R. Udisti, M. Cabello. The impact of long-range-transport on PM1 and PM2.5 at a Central Mediterranean site. *Atmospheric Environment* 71 (2013) 176-186 DOI:10.1016/j.atmosenv.2013.02.006 ISSN1352-2310.
- 33) **A. Dinoi**, M. R. Perrone, P. Burlizzi. Application of MODIS Products for Air Quality Studies Over Southeastern Italy. *Remote Sensing* (2010), 2, 1767-1796; doi: 10.3390/rs2071767 ISSN 2072-4292.