CURRICULUM VITAE

SOFIA TAGLIAFERRO

	PERSONAL DETAILS
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CURRENT POSITION	**Researcher with scholarship** at the Institute of Clinical Physiology (IFC) of the Pisa National Research Council (CNR).
EDUCATION	**29/05/2020** - Master degree in **Environmental and land sciences and technology (LM-75) climatological curriculum**, at the Department of Earth Sciences of Pisa University with final grade **110/110 with honors**. Thesis title: *Effects of outdoor pollution on the respiratory health of a general population sample from Pisa/Cascina: traditional and innovative methods for individual exposure assessment.* Supervisor: Sandra Baldacci. **22/09/2017** - Bachelor degree in **Geological sciences (L-34)** at the Department of Earth Sciences of Pisa University with final grade **109/110**. Thesis Title: *Geochemical study of waters of Laghetto di Terranera (Porto Azzurro, Elba Island).* Supervisor: Riccardo Petrini.
SCIENTIFIC AFFILIATIONS	Pulmonary Environmental Epidemiology (EPAP) group of the Institute of Clinical Physiology (IFC) of the Pisa National Research Council (CNR)
AREAS OF RESEARCH	My area of research is environmental epidemiology, with a particular focus on studying the long-term effects of individual air pollution exposure in general population samples, through cross-sectional and longitudinal epidemiological studies. In the current position I have gained experience in literature research, collection and elaboration of environmental data, epidemiological variables construction and data analysis. I am currently participating in the following national projects carried out by IFC-CNR Pisa: 1. the ongoing national project **BIGEPI** ("*BIG data for assessing the Health Effects of Air Pollution in the Italian Population*"), coordinated by IFC-CNR of Pisa and funded by INAIL, in which the general objective is to identify the risks associated with short- and long-term exposure to air pollution and temperature in the general population, in terms of effects on mortality, hospitalisation, morbidity and physiological parameters. In particular, the aim of the work package I am working on is to evaluate the chronic effects of air pollutants (PM_{10}, $PM_{2.5}$, NO_2 and O_3), temperature and individual risk factors on morbidity and on specific respiratory pathology indicators available from previously conducted analytical epidemiological surveys;

2. the ongoing national project **RISER** ("*RIsk factors, diagnosis, and management of SEvere/uncontrolled asthma from general population to clinical setting: update and follow-up of the RItA registry*"), coordinated by Pisa University and funded by GSK, with the aim of increasing knowledge of risk factors, diagnosis and management of incidence and prevalence of severe uncontrolled asthma in the general population and in the clinical setting by updating and following up the RItA online register.

I have co-authored to the following scientific papers submitted to international journals and currently under review:
1. *"Environmental Risk Factors: Indoor and Outdoor Pollution, and Climate Change Impacts"*, Tagliaferro S., Maio S., Baldacci S., Viegi G. *WAO Allergy Book 2021*. The review collects the recent evidences about the burden of allergic diseases, the impact of outdoor and indoor air pollution exposure and the influence of environmental changes resulting of climate change;
2. "*Influence of urban grey spaces proximity on allergy: a population-based study*", Maio S., Baldacci S., Tagliaferro S., Angino A., Parmes E., Pärkkä J., Pesce G., Maesano C. N., Annesi-Maesano I., Viegi G. *Environmental Research*. The study evaluate the association between increasing exposure to grey spaces (urban areas) and allergic status (positivity to SPT and serum BPDE-DNA adducts, asthma/allergy prevalence) in an adult general population sample living in Pisa/Cascina.

I have collaborated in the review of the following manuscript to be submitted to an international journal:
1. "*Epidemiology and prevention of lung cancer: gender differences?*", Carrozzi L., Baldacci S., Maio S., Meschi C., Chimera D., Pistelli F. *Precision Cancer Medicine*. The review article reporting the evidences about the gender differences in lung cancer incidence and behavioral, genetic and environmental risk factors.

During my working period, I have acquired skills in work management and organization, communication and dissemination, problem solving and team work.

INTERNATIONAL EXPERIENCES AND COLLABORATIONS	I am currently participating in the ongoing European project **EarlyFOOD** ("*Long-term impact of gestational and early-life dietary habits on infant gut immunity and disease risk*"), coordinated by INSERM UMR Paris and funded by HDHL-INTIMIC, which the aim is to identify the impact of dietary habits and toxic contaminants in the gestational period and in the first months of a child's life on the dysbiosis of the gut microbiota and on the risk of developing metabolic and allergic diseases and neuro-behavioral disorders. The CNR is directly involved in the collection of epidemiological data from questionnaires and biological samples in the Italian cohort of mother-child pairs and in subsequent biostatistical analyses. **My personal task** is to build a matrix collecting information of the children's external exposome in the frame of two different projects having recruited mother-child cohorts with singletons and twins that are followed-up, namely HEALS (10 cities from 10 European countries) and EarlyFOOD (3 cities from 3 European countries). External environmental stressors that have been considered include many factors, as air pollution, pollen, outdoors molds, soil pollution, water quality, meteorological variables, noise, pesticide residues in food, land cover with the type of vegetation. Stressors related data and files come from international, national, regional and municipality web sources. I used QGIS software to geolocate children's addresses, air quality and meteorological monitoring stations and to calculate the percentage of land cover areas in the municipality boundaries, through geoprocessing techniques, in order to assess the individual exposure.

PUBLICATIONS	Abstract epub head of print in the *European Respiratory Journal*, entitled: *Air pollution exposure and incidence of asthma and allergic rhinitis in a general population sample.* Authors: Tagliaferro S., Maio S., Baldacci S., Fasola S., Gariazzo C., Stafoggia M., La Grutta S., Forastiere F., Viegi G.		
SCIENTIFIC CONFERENCES (Please specify if presenter or co-author)	• **Poster presentation** as presenter at ERS (European Respiratory Society) Congress 2021. Abstract title: *Air pollution exposure and incidence of asthma and allergic rhinitis in a general population sample.* Authors: Tagliaferro S., Maio S., Baldacci S., Fasola S., Gariazzo C., Stafoggia M., La Grutta S., Forastiere F., Viegi G.; • **Poster presentation** as co-author at ERS (European Respiratory Society) Congress 2021. Abstract title: *Influence of residential land cover on hospitalizations: a population-based study.* Authors: Maio S., Baldacci S., Angino A., Tagliaferro S., Annesi-Maesano I., Fasola S., La Grutta S., Viegi G.		
AWARDS			
LANGUAGES (Common European Framework Of Reference For Languages)	English		
Reading	B1		
Writing	B1		
Speaking	B1		
COMPUTER	As part of my university and work experience, I have deepened my knowledge in the use of specific software for statistical and environmental analysis.		
Programming Language			
Software	QGIS (Quantum-Geographic Information System), SPSS (Software Package for Social Science), Microsoft Office Package (Word, Excel, Power Point – ECDL certification), Matlab		
Lab Instruments experience			
Other Titles	During my university experience, I worked as student peer tutor and counsellor student, working mainly on didactic secretarial support, information, orientation and integration into student life, assistance in organising studies. I have acquired basic knowledge of communication and relational principles through cross-training by the psychologists of the University Listening Centre, and skills in team work, listening to students' problems and solving them, organising time. I also participated at the following: - first national workshop "*Earth, life and climate: the carbon cycle*", at the CNR research area of Pisa; - short Summer School "*Geological archives of past warm periods from central Italy and their potential for climate research*", Abbazia di Santo Spirito al		

	Morrone, Sulmona; - *Bright Night* 2019, at the Department of Earth Sciences of Pisa University; - Short course (10 h) "*From plastic to plastic*" at the Department of Earth Sciences of Pisa University. During my work experience, I participated to some webinars on Principal Component Analysis (PCA), Cluster Analysis (CA), Factor Analysis (FA), Crosstabs and Logistic Regression Analysis organized by SPS (Statistics for Data Analysis) training staff.
Hobbies and Interests	I am volunteer in environmental organizations and I trained Civil Protection volunteers and municipal employees. I like to convey my passion for climate science and I had the role of communicator at Pisa University about climate change and related health effects. I am committed to society, actively participating in the organization and management of events, as the "*Bright Night*", the European night of researchers.