

PERSONAL INFORMATION

Tommaso Filippini, MD, DrPH, PhD



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Sex Male | Date of birth 11 May 1986 | Nationality Italian

Research topics

- Epidemiological and statistical methods, including dose-response assessment
- Environmental and nutritional epidemiology, including interest in air pollution, pesticides, electromagnetic fields, light at night, acrylamide, green tea, heavy metals (e.g. cadmium, lead, mercury), sodium, potassium, trace elements (including selenium, manganese and other trace elements).
- Neurodegenerative and neurodevelopment diseases, including amyotrophic lateral sclerosis, early onset dementia, and attention deficit hyperactivity disorder
- Cancer and chronic diseases, including breast cancer, melanoma, childhood leukemia, cardiovascular disease, hypertension, and type 2 diabetes
- Risk assessment in both nutritional and environmental exposure
- COVID-19 epidemiology and risk factors

Research statement

I am a Researcher in Public Health at the University of Modena and Reggio Emilia, Italy. I work in the study of health effects of environmental risk factors, particularly dietary risk factors and outdoor pollutants, with specific reference to risk of chronic diseases such as cancer and neurodegenerative diseases and more recently also COVID-19. The major research interests and activities are on the health effects of environmental and nutritional chemicals, including manganese, potassium, selenium, heavy metals (e.g. cadmium, lead, mercury) and persistent organic pollutants. I owned an advanced experience and expertise in performing systematic reviews and meta-analysis, including the use of newly developed biostatistical dose-response tools in epidemiologic research, coauthoring papers on the role of air pollution in childhood leukemia etiology, neurological diseases and COVID-19, on the role of sodium and potassium on blood pressure and stroke, and on the role of selenium, cadmium and other trace elements and metals on obesity, diabetes and cardiovascular diseases, and neurological diseases.

WORK EXPERIENCE

- 8 March 2022 – present **Associate Researcher**
University of California Berkeley, School of Public Health
- 01 Oct 2022 – present **Associate Professor in Hygiene and Preventive Medicine**
University of Modena and Reggio Emilia
- 01 Oct 2019 – 30 Sept 2022 **Assistente Professor in Hygiene and Preventive Medicine**
University of Modena and Reggio Emilia
- 01 Nov 2018 – 31 Oct 2021 **PhD program in Public Health and Preventive Medicine**
University of Modena and Reggio Emilia
- 08 Aug 2018 – 24 Jul 2018 **Residency program in Hygiene and Preventive Medicine**
University of Modena and Reggio Emilia

EDUCATION AND TRAINING

- 2 Nov 2018 – 31 Oct 2021 **PhD Student in Clinical and Experimental Medicine**
University of Modena and Reggio Emilia, Modena, Italy
Thesis defense 27 May 2022
- 08 Aug 2018 – 24 Jul 2018 **Degree as Specialist in Hygiene and Preventive Medicine**
University of Modena and Reggio Emilia, Modena, Italy
Final evaluation 110/110 *cum laude*
- 2 Nov 2012 – 7 Feb 2013 **Professional Medical Qualitfication**
University of Modena and Reggio Emilia, Modena, Italy
Final evaluation 247.5/270
- 12 Sep 2006 – 4 Oct 2012 **Degree in Medicine and Surgery**
University of Modena and Reggio Emilia, Modena, Italy
-Final evaluation 110/110 *cum laude*
- 12 Sep 2001 – 9 Jul 2005 **High school diploma (classical studies)**
Liceo classico-scientifico Ariosto-Spallanzani, Reggio Emilia, Italia
Final evaluation: 100/100

ADDITIONAL INFORMATION

Projects

- CLIC project: 2022-ongoing: member of the Integrative Cancer Research Group (ICARE) working group of UC Berkeley for the investigation of the relation between radiologic medical examinations and risk of childhood leukemia - a pooled analysis within the Childhood Leukemia International Consortium - CLIC, PI Prof. Catherine Metayer
- Project Co-PI in FAR2022 (Fondo di Ateneo per la Ricerca 2022), PI: Prof. Eduardo Gianfrancesco. Title: "Beyond the Hospital." The National Recovery and Resilience Plan and the Development of Italian Primary Care: A Law and Medicine Pilot Project for the Modena Province". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2022-2024/ongoing)
- Project PI in FAR2022 Departmental (Fondo di Ateneo per la Ricerca 2022), Title: "M Proximity to petrol station and risk of childhood leukemia: a population based case-control study in Italy". Funded by University of Modena and Reggio Emilia (2022-2023/ongoing)
- Project Co-PI in FAR2021 (Fondo di Ateneo per la Ricerca 2021), PI Prof. Alessandro Bigi, Title: "Mitigating Indoor Risk of Airborne Infections: MIRAI". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2021-2023/ongoing)
- Project Co-PI in FAR2020 (Fondo di Ateneo per la Ricerca 2020), PI: Prof. Sergio Teggi, Title: "Valutazione dei possibili effetti della radiazione solare UV sulla trasmissione del virus SARS-CoV-2". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2020-2022)
- Project Participation in FAR2019 (Fondo di Ateneo per la Ricerca 2019). PI: Prof. Alessandro Bigi, Title: "BlackAir – Black Carbon, Air pollution and Health in Modena" - BlackAir – Black Carbon, Inquinamento dell'Aria e Salute a Modena". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2019-2021)
- Member of the Task Force COVID19 of the University of Modena and Reggio Emilia coordinated by Prof. Paola Borella to support correct information and research on COVID-19 pandemics, particularly in the field of Public Health (2020-ongoing).
- Projects Collaboration within UNIMORE unit in the "European Human Biomonitoring Initiative – HBM4EU" from 2017 to 2021. Activities in WP7, 8, 13, and 15. Grant Agreement number: 733032 — HBM4EU — H2020-SC1-2016-2017/H2020-SC1-2016-RTD - www.hbm4eu.eu
- Collaboration within UNIMORE unit in the Partnering Grant "Dose-response relationship in health risk assessment nutritional and toxicological factors in foods: development and application of novel biostatistical methods - GP-EFSA-AFSCO-2017-01 GA09 of the European Food Safety Authority.
- Project partner of UNIMORE unit and WP leader (WP3100: "EPI-data assessment") in the project "Space in response to COVID-19 outbreak - EPICO19: an EPIdemiological and logistic COvid-19 model", funded by the European Space Agency (ESA contract No. 4000131356/20/NL/AF) for the implementation of a web application to support public health technicians and decision makers in managing health resource planning to forecast the impact map of the contagion outbreak, estimating the diffusion of the pandemic, and support the design and the ex-ante evaluation of the effect of restrictions policies (www.epico19.eu).

Teaching

- Epidemiology and Hygiene. Nursing Degree (Reggio Emilia course), University of Modena and Reggio Emilia (from AY 2019/2020)
- Epidemiology and Hygiene. Education and Human Development Degree, University of Modena and Reggio Emilia (AY 2020/2021)
- Hygiene and Preventive Medicine. Medical Degree Medical School, University of Modena and Reggio Emilia (from AY 2020/2021).
- Epidemiology and Hygiene. Digital Education Degree, University of Modena and Reggio Emilia (from AY 2021/2022)
- Health promotion. Health Assistant Degree, University of Modena and Reggio Emilia (from AY 2022/2023 - ongoing)

Publications

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56638659600>
Author ID: 56638659600 - H-index 48, Publications: 192; Total citations 7041 (3 Jul 2025)
Publons: <https://publons.com/researcher/2296267/tommaso-filippini/>
ResearchGate: <https://www.researchgate.net/profile/Tommaso-Filippini>

National abilitation

- Italian National Scientific Qualification (ASN) 2018 for Associate Professor in 06/M1 sector, SSD MED/42 "General and Applied Hygiene" valid from May 10, 2019 to May 10, 2025
 - Italian National Scientific Qualification (ASN) 2018 for Full Professor in 06/M1 sector, SSD MED/42 "General and Applied Hygiene" valid from April 26, 2021 to April 26, 2030

Modena, July 03, 2025

(Tommaso Filippini)

