

CURRICULUM VITAE

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GMC full registration 3423356 Oct 89, on Specialist Register for Public Health. Revalidated for public health specialist practice in 2019, next revalidation appraisal in 2024.

Professional Interests

- environmental factors in human health and disease;
- development of new population exposure models specific to hazard of interest, by integration of physico-chemical parameters and geographical variables;
- development of methods for studying and addressing newly recognised environmental hazards, including those with a global scope and indirect effects on health;
- application of environmental epidemiology to public health and health protection services, in particular development of environmental public health information systems (surveillance and tracking);
- evidence on interventions aimed at reducing burden of disease attributable to environmental hazards, and relevance of this evidence to policies for the health services and other sectors;
- design of governance systems for environmental public health at national level.

Education:

- 2006 **Fellowship Faculty of Public Health Medicine, UK** (MFPH since 2001)
- 2001 **Specialist in Public Health Medicine** (on specialist register of GMC)
- 1994 **MSc Environmental Epidemiology and Policy, London School of Hygiene and Tropical Medicine.** Dissertation title: "Arsenic soil contamination and bladder cancer in Cornwall and Devon". Specialised in Environmental Epidemiology, Statistical Methods in Epidemiology, Advanced Statistical Methods in Epidemiology, and Environmental Health Policy.
- 1991 **Specialist in Hygiene and Preventive Medicine, University of Bologna, Italy.** Dissertation in Environmental control of disease, title: "Algal contamination of drinking water supplies".
- 1986 **Doctor in Medicine and Surgery, University of Bologna, Italy.** Thesis in Human Physiology (published original work): Regional spinal cord blood flows during the sleep-wake cycle.
- 1978-1980 **Faculty of Sciences, Florence,** Biological sciences undergraduate course. 8 core subjects completed, including mathematics and statistics, genetics, general and inorganic chemistry, organic chemistry

PROFESSIONAL DATA

Employment Record (summary)

- 2021-present **Head of Environmental Epidemiology** at the UK Health Security Agency, Radiation, Chemical and Environmental Hazards Directorate, and **Honorary Associate Professor**, Department of Public Health, Environments and Society, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine

- 2015-2021 **Head of Environmental Epidemiology Group** at the Public Health England, Centre for Radiation, Chemical and Environmental Hazards and **Honorary Associate Professor**, Public and Environmental Health Research Unit, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine
- 2011-2015 **Head of Epidemiology Department** at the Public Health England, Centre for Radiation, Chemical and Environmental Hazards and **Honorary Senior Lecturer**, Public and Environmental Health Research Unit, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine
- 2003-2011 **Consultant in Public Health (Environmental Epidemiology)** at the Health Protection Agency, Centre for Radiation, Chemical and Environmental Hazards and **Honorary Senior Lecturer**, Public and Environmental Health Research Unit, Faculty of Public Health and Policy, London School of Hygiene and Tropical Medicine
- 2001-2003 **Consultant in Public Health (Environmental Epidemiology)** at the Chemical Incident Response Service of Guy's and St Thomas' Hospitals NHS Trust, and **Clinical Research Fellow (Epidemiologist)**, Environmental Epidemiology Unit, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine
- 1997-2001 **Clinical Research Fellow (Epidemiologist)**, Environmental Epidemiology Unit, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine, and **Specialist Registrar in Public Health Medicine**, initially based at South Essex Health Authority, then at Camden & Islington Health Authority. A post with 50% academic and 50% service commitments within the North Thames Public Health Training Scheme. CCST obtained 7th September 2001.
- 1994-1997 **Clinical Research Fellow (Epidemiologist)**, Environmental Epidemiology Unit, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine, UK.
- 1991-1993 **Senior House Officer.** Acute medicine for the Elderly, Orsett Hospital, Essex; Haematology, University College Hospital, London; Accident and Emergency Medicine, Ealing Hospital, Middlesex.
- 1990-1991 **House Physician.** Barking and King George Hospitals, Ilford, and Southend General Hospital, UK.
- 1989 **Visiting Research Fellow, University of Utrecht and National Institute of Public Health and Environmental Protection (RIVM), The Netherlands.** Funded by the "Erasmus" grant of the European Community.
- 1988 **National Service**, as a doctor in the Italian Air Force.
- 1982-1987 **Research Worker, Institute of Human Physiology, University of Bologna, Italy.**
In the second part of 1987, locum GP in mountain regions of Northern Italy

Recent External interactions

- 2018-present Member of the Committee of the **Occupational and Environmental Epidemiology Society** of UK and Ireland, a scientific society with the goals to promote occupational and environmental epidemiology in the United Kingdom and Ireland; to oversee the arrangements for an annual UK/Ireland meeting on occupational and environmental epidemiology; and to promote research collaborations in occupational and environmental epidemiology within the United Kingdom and Ireland, and worldwide (
- 2017-present Member of the Steering group and of Scientific Advisory Committee of **Healthy-Polis** network (website: <https://sites.google.com/site/healthypolisnetwork/>). A scientific network on

sustainable urban environmental health, environmental epidemiology, health impact assessment.

- 2014-present Member of the Steering Committee and of Scientific Committee of the International Network on Environmental Public Health Tracking (**INPHET**), an international network launched in 2014 to promote environmental public health and prevention of chronic disease (INPHET.org).
- 2015-2019 Vice-Chair, Member of the Management Committee, and Member of Working Group 1 of COST Action 1408 “Industrially Contaminated Sites and Health Network (ICSHNet)”, which established and consolidated a European Network of experts and relevant institutions in 28 countries, and developing a common framework for research and response on this theme. Website: http://www.cost.eu/COST_Actions/isch/Actions/IS1408
- 2016 Member of the organising committee for 50th anniversary workshop/conferece event to celebrate and review Bradford Hill’s 1965 paper on Association or Causation, an event to be held at Royal Society of Medicine, London on 13-14 October 2016, with title: “Association or Causation in Miasmas and Mixtures: current reflections on Bradford Hill’s 1965 contribution to Public Health”.

Principal research projects.

- 2020-2024 **Research Lead. Health Protection Research Unit on “Environmental Change and Health”** in collaboration of PHE with London School of Hygiene and Tropical Medicine, University College London and UK Meteorological Office. Projects include following topics: effects of environmental change on infection and vector-borne disease, attribution to climate change of infectious and non-communicable disease
- 2020-2024 **Investigator: Air pollution and infertility** in collaboration of PHE with Imperial College and Kings College London.
- 2020-2024 **Investigator: Measurement error in the estimation of exposure to carbon monoxide indoor** in collaboration with Leicester University.
- 2018-2020 **Investigator: Climate variability and viral haemorrhagic fever – renal syndrome in China.** A collaboration with China CDC, Brunel University, and London School of Hygiene and Tropical Medicine.
- 2017-2019 **Investigator: Carbon Monoxide direct measurement as a gold standard to quantify CO exposure and intoxication.** A collaboration with University of Lausanne and Brunel University. The project recruited a PhD student who completed her dissertation in 2019.
- 2016-present **Investigator: Climate change and migration.** A collaboration with Brunel University, University College London and London School of Hygiene and Tropical Medicine. The project recruited a PhD student who started in December 2016.
- 2016-2021 **Investigator: Carbon monoxide uptake and elimination.** A collaboration with University College London. The project recruited a PhD student who completed in October 2021.
- 2016-present **Co-ordinator: Fluoridation of public drinking water supplies and health effects.** A health monitoring analysis and report required by te Secretary of State for Health and Social Care. A report was published in 2018 and a peer-reviewed paper in 2019.
- 2014-2019 **Investigator (member of study steering group): National Cohort Study of the Effects of Flooding on Health in England.** A follow study up led by Public Health England, in collaboration with London School of Hygiene and Tropical Medicine, Kings College and Bristol

University. My role was in leading the exposure assessment methods development, as well as contributing to overall study design.

- 2013-present **Principal Investigator: a review of coroners narrative reports on carbon monoxide deaths.** A collaboration with the Office for National Statistics (ONS) in Newport and the Field Epidemiology Training Programme, is being conducted to gain intelligence about the causes and situations of CO-related deaths to inform interventions and advice.
- 2013-present **Investigator:** A study of “**Hospital episode statistics (HES) inpatient data for CO-related hospital admissions in England**”, in collaboration with Imperial College’s Small Area Health Statistics Unit (SAHSU) (www.sahsu.org), and supported by NIHR funded Health Protection Research Unit on “Environmental Hazards”. The aim is to provide an updated analysis of HES data by including information on inpatient episodes related to acute CO poisonings; and to examine trends that occur over time, along with seasonal trends, and other factors such as distribution rates based on ethnicity and deprivation. A report on this work was published in 2015, and two more are in preparation.
- 2013-present **Investigator:** A study on the topic of “**Fatal unintentional non-fire related carbon monoxide poisoning**”. A collaboration with Kings College (Prof Robert Flanagan). Analyses were conducted on ONS mortality data from England and Wales in the period 1979–2012, and results were published in “Clinical Toxicology”, a peer-reviewed journal.
- 2012-present **Investigator:** a survey on “**Biomonitoring of arsenic exposure in Cornwall**”, a collaboration with PHE Environmental Public Health Tracking programme, the British Geological Survey and the University of Manchester. The aim is to document body burden as part of an overall exposure model development for the population. Field data collection has been completed, and results are in preparation.
- 2011-present **Investigator:** a survey of “**Chemicals in private water supplies in Cornwall**”, supported by the Environmental Public Health Tracking programme of Public Health England. A collaboration with the British Geological Survey. I led on design and implementation of a two-phase sampling programme of the chemical components in private water supplies in Cornwall. During the programme, water samples were collected from around 500 households. The aim is to estimate risk of exposure to chemicals above the recommended guidance values for drinking water, and to provide information of value to Local Authorities responsible for monitoring of private drinking water supplies. The results from these samples reveal that for arsenic alone, 5.5% of drinking-water samples exceeded the 10 µg/L prescribed concentration or value threshold set by the Private Drinking Water Supply Regulations (2009); exceedences were found for several other chemicals. Several peer-reviewed journal articles have been published and more are in preparation.
- 2012-2016 **Investigator:** a project on “**Risk prioritisation: multi-criteria decision analysis**”, funded by PHE development Fund. A collaboration with the London School of Hygiene and Tropical Medicine, Department of Social and Environmental Health Research, London and with local Director of Public Health in Dorset. This project focuses on the development and application of a mathematical tool to facilitate prioritisation of interventions to reduce the effect of environmental hazards on health in the UK. It aims to provide public health professionals and local authorities with a transparent and practical tool that can be used to evaluate and compare environmental public health interventions across several criteria. These criteria could include, for example, health benefits, sustainability, costs and acceptance of risk. For further details, see non-peer reviewed report and peer-reviewed paper. .
- 2010-2017 **Investigator:** a project on “**Surveillance of lead poisoning in children (SLIC)**”. A project supported by Public Health England. A collaboration across several units within PHE as well as the British Paediatric Surveillance Unit, SAS laboratories across the country, and public health authorities and health protection teams in the UK and Republic of Ireland. Following a design phase, collection of new cases of raised blood lead levels in children from paediatricians and laboratories has been completed after two years of surveillance.

- 2011-2012 **Investigator:** a study of “**Carbon monoxide alarms in private homes: prevalence of potential exposure in Hackney**” in collaboration with PHE Field Epidemiology Training Programme and a housing association staff in Hackney, and was completed in 2012. This work was published in the Journal of Environmental and Public Health (see www.hindawi.com/journals/jeph/2013/735952/abs/ for more details).
- 2007-2010 **Investigator:** the EA-HPA-LSHTM study on **Long Term Health Impacts of Flooding**. A collaboration of epidemiologists from LSHTM, staff from the Environment Agency responsible for flooding policy and health impacts, and staff from Health Protection Agency working on response to flooding and environmental epidemiology. For more details see peer-reviewed publication by Milojevic et al in 2011. A further manuscript on population displacement in Hull is under review.
- 2006-2013 **Investigator:** A programme of environmental epidemiology studies on **Health effects of perfluorooctanoate**, funded by West Virginia State Court. The study (with Tony Fletcher of the London School of Hygiene and Tropical Medicine) examined a range of endocrine, immune and liver effects in relation to exposure to perfluorooctanoate (PFOA) a persistent organic pollutant emitted in the environment as a side effect of the manufacturing of Teflon, and resulted in publication of several peer-reviewed results (see two papers by Lopez-Espinosa et al, and two papers by Gallo et al).
- 2007-2010 **Investigator:** A programme of studies on **Integrated Framework for Improving Sustainability of the Indoor Environment (INTRAWISE)** (with Adisa Azapagic of Manchester University) and 3 other partners in the UK. Funded by EPSRC.
- 2005-2011 **Investigator:** A programme of studies on **Integrated Assessment of Health Risks of Environmental Stressors in Europe (INTARESE)**, funded by the European Union 6th Framework Programme. The study (with David Briggs at Imperial and 31 other partners across Europe)
- 2007-2008 **Investigator: CENSY: Prevalence of symptoms related to carbon monoxide (CO) exposure in the UK**, funded by the CORGI Trust. November 2007 – ~April 2008. In collaboration with University College London. Similar to the Summer 2006 project. This time including a large telephone survey of 2500 householders to the South and East of London, with follow up visits by a gas engineer to about 400 homes.
- 2006-2007 **Investigator: Gas Appliance Check Project** funded by the UK Health and Safety Executive. In collaboration with University College London. 597 typical homes in East London boroughs and to the South and East of London had all their appliances checked. About 20% had problem gas appliance installations, with about 6% of all homes estimated to be at high risk of exposure to CO above WHO guideline levels. Indications were found that occupants in homes assessed as being at high risk were up to 9 times as likely to experience one of the CO related neurological symptoms asked of occupants, see peer-reviewed publication by Croxford, Leonardi, Kreis in 2008 for more details.
- 2005-2009 **Investigator:** A health impact analysis study on **Pollution in the Urban Environment (PUrE)**, funded by the EPSRC, a collaboration of LSHTM based scientists in epidemiology, mathematical modelling and health economics, with academic departments of engineering from the Universities of Surrey, Cardiff, Sheffield, Belfast as well as Forestry Commission and others. The main aim of the project is to develop an integrated decision-support framework comprising a suite of appropriate models and tools that can be selected by different stakeholders or end-users (policy-makers/implementers, local authorities, industry, researchers, NGOs) to conduct simple screening studies and/or detailed modelling assessments of options for a more sustainable management of urban pollution
- 2004-2005 **Investigator : Neuropsychological Effects of Low Level Exposure to Indoor Carbon Monoxide**, Department of Health funded. In collaboration with University College London, the Medical Toxicology Unit at Guy’s Hospital, and the Public & Environmental Health Research Unit at LSHTM 270 vulnerable low income households were monitored in London

Borough of Newham and surrounding boroughs. Again about 20% of homes were found to have levels of CO greater than WHO guidelines.

- 2002-2003 **Investigator: Neuropsychological Effects of Low Level Exposure to Indoor Carbon Monoxide**, Department of Health funded. In collaboration with University College London, the Medical Toxicology Unit at Guy's Hospital, and the Public & Environmental Health Research Unit at LSHTM. 56 homes of vulnerable low income households were monitored for CO continuously for at least a week, across the UK around 20% were found to have CO concentrations above the WHO guidelines
- 2002-2004 **Deputy coordinator: Multicentre Case-Control Study of Arsenic Health Risk Assessment and Molecular Epidemiology (ASHRAM)**. A study of effect of arsenic in water on skin, bladder and kidney cancer in Central and Eastern Europe. A project led by Tony Fletcher at the London School of Hygiene and Tropical Medicine and funded by the European Union. The study includes measurement of metabolic and genetic parameters as well as cumulative exposure to inorganic arsenic in each case and control.
- 1999-2003 **Researcher: Multi-centre pooled cross-sectional study Pollution and the Young (PATY)** of selected European and US studies of air pollution and respiratory health in children. A project led by Tony Fletcher and funded by EU FP5. My role was to contribute to the work package for the study of the modification by atopy of effect of chronic exposure to air pollution.
- 1997-2001 **Epilepsy incidence in general practice**. A collaboration with the Neurological Epidemiology Research Group at the National Institute of Neurology, Queen Square to study variation in the incidence of epilepsy by socio-economic group in 17 general practices in London.
- 1997-1999 **Chemical Incident Health Impact Prediction**. A collaboration with the Major Hazard Assessment Division of the Health and Safety Executive, and the Home Office Emergency Planning Research Group, to model the potential public health consequences of a large fire of crude oil at a refinery.
- 1994-1997 **Researcher: EC PHARE Programme's Central European Study on Air Quality and Respiratory Disease in Children (CESAR)**. A study of **air pollution and respiratory health in children**, under the supervision of Dr Tony Fletcher. The project was in collaboration with the Dutch National Institute of Public Health and Environmental Protection (RIVM) and the Agricultural University of Wageningen, NL, and it involved multi-disciplinary teams from **Bulgaria, Czech Republic, Hungary, Poland, Romania, and Slovakia**. My role was to contribute to the development and implementation of the protocols on health effects assessment, which include a questionnaire on respiratory symptoms and confounders, lung function testing, skin prick testing, and measurement of a range of immune system parameters. Within this multi-country epidemiological project, I gained experience and skills in: (i) co-ordination of a large network of investigators; (ii) writing and implementation of scientific protocols for the collection and management of epidemiological data; (iii) statistical analysis (logistic regression, multiple linear regression, multilevel modelling) using Stata 6 and MlwiN; (iv) capacity building and facilitation of contributions from scientific and technical staff from a variety of professional and cultural backgrounds, with the aim of producing high quality epidemiological work
- 1989 **Researcher: EC Erasmus Programme**. National Institute of Public Health and Environmental Protection, The Netherlands. I worked on data from a epidemiological survey of **effects of cadmium exposure in the general population**. My task consisted of designing and conducting a pilot study on the relationship between automatically recorded blood pressure readings and the Korotkoff sounds. I also gained training in investigation of local concerns regarding environmental health hazards.
- 1985-1987 **Researcher: Laboratory of Behaviour Studies, Institute of Human Physiology, University of Bologna**. My investigations were mainly concerned with the **regulation of the cardiovascular system by the central and peripheral nervous systems, in a range of environmental conditions**. A combination of behavioural and neurophysiological methods was used to describe sleep-wake phases and responses to the environment. Blood flows in all organs were evaluated

by a radioactive microsphere method. I also gained training in histology, data management, computer programming and statistics.

Teaching

- 2022 **Organizer, designer, and lecturer on Environmental Epidemiology course for Field Epidemiology Training Programme at Lewi Mwanawasa Medical University, Lusaka, Zambia.**
- 2019 **Designer and lecturer on course on “Chemical Threats, Environmental Epidemiology and Poisoning Epidemiology” for staff of Ministry of Health, Yangon, Myanmar.**
- 2018 **Organiser, designer and lecturer on “Training the Trainer” course on Environmental Public Health for staff of National Centre for Disease Control, Tbilisi, Georgia.**
- 2018 **Organizer, designer, and lecturer on Environmental Epidemiology course for Field Epidemiology Training Programme at University of Ghana, Accra.**
- 2013-present **Organiser and Lecturer on short course on Introduction to the Practice of Environmental Epidemiology** at Public Health England. A course organized with the Field Epidemiology Training Programme. I contributed databases and text for two case studies to be used as problem-based learning for this course: a case study on the Broomfield coal tip fire, and a case study on the ASHRAM study on arsenic in drinking water. I also developed a lecture on “Public health uses of geographical information systems in environmental epidemiology” for this course.
- 2009- 2019 **Lecturer** in environmental health for medical students (undergraduate) and MSc Global Health students (postgraduate) at Oxford University
- 2007-2010 Participant in **European Network for the Training and Development of Public Health (Environment) Physicians (PHEEDUNET)**, a project funded by DG-SANCO.
- 2004 - 2010 **Organiser and Lecturer on Short Course on Environmental Epidemiology** at LSHTM, in collaboration with Prof Irene Kreis of Wollongong University, Australia and others in UK
- 2001-present **Organiser and Lecturer** on environmental health training programmes organized for public health practitioners by the Chemical Incident Response Service, then the Health Protection Agency, then Public Health England, now UK Health Security Agency, on the following topics “How to respond to chemical incidents”, “Surveillance of chemical incidents”, Environmental epidemiology of chronic exposure to chemicals in the community”.
- May 2001 **Lecturer** on the British Council funded course in environmental epidemiology for public health physicians of the Russian Federation, Moscow.
- 1998-present **Tutor of post-graduate students** on the MSc Environmental Epidemiology and Policy, including supervision of MSc summer projects.
- 1998-2000 **Deputy Course Organiser:** MSc Environmental Epidemiology and Policy
- 1996-1998 **Teaching Unit Co-organizer: Basic Epidemiology.** One of the most subscribed courses at the London School of Hygiene and Tropical Medicine. I was member of a group of 3 organisers, in addition to contributing to the preparation of teaching materials and exam questions, my specific task was to identify and organize teaching staff for practical seminar for 15 student groups.
- 1996-present **Individual lectures** on Epidemiology and Environmental Health Policy at the London School of Hygiene and Tropical Medicine, as part of the MSc programme. Also invited lecturer on “Research in countries of Central and Eastern Europe” at the Summer Seminar of the European Public Health and Environment Network (EPHEN), London, 26 June-2 July 2000; on “Public health risk analysis model for large chemical incidents” at the Home Office Emergency

Planning College, as part of Hazardous Materials and Pollution Seminar, Easingwold, York, 1-4 September 1998; and on “Health Impact Assessment” for the course on Environmental Impact Assessment organized by the University of Manchester, Bradford, 1997.

- 1997-1999 **Lecturer: London School of Hygiene & Tropical Medicine "Epidemiology in Public Health" Summer School.** Lectures and seminars on epidemiology and basic statistics at this annual summer school based on participatory teaching methods, and aimed at professionals from central and eastern Europe. Took part in Fourth and Fifth Summer School in Prague, July 1997 and 1998, and Sixth in Cracow, July 1999.
- 1994-present **Seminar Leader** in teaching units: Basic Public Health, Extended epidemiology, Basic Epidemiology, Environmental Health Policy, Epidemiology for Policy Making, Science Politics & Policy, and Integrative Unit in Public Health. **Short course** in “Advanced Statistical Methods in Epidemiology”: teacher in practical sessions on logistic regression. **Practicals leader** in “Basic Statistical computing with STATA”: five practical sessions with MSc students.
- 1995-present **Group work supervisor.** Supervision and assessment of group work and/or projects/essays within teaching units: Environmental Epidemiology, Data Processing and Analysis, Environmental Health Risk Assessment, Epidemiology for Policy Making, Environmental Health Policy, Science Politics & Policy.
- 1995-present **Co-organiser of Workshops** in the framework of the PHARE Programme in Central and Eastern Europe.
Topics: Health Effects Assessment in Epidemiology, Slovakia, 1995
Immune Biomarkers in Environmental Epidemiology, Hungary, 1995
Data Analysis, Czech Republic and The Netherlands, 1997
Data Analysis and Report Writing, Czech Republic 1999 and 2000

Details of supervision experience

External examiner for PhD dissertations on:

- (i) “Environmental Exposure to Metallic Soil Elements and Risk of Cancer in the UK Population, Using a Unique Linkage Between THIN and GBASE Database”, Anwar Musah, Nottingham University, October 2016.
- (ii) “Health and industrial development in Oman: epidemiological analysis of the health effects in a population living near a major industrial park in Oman”, Adil Al-Wahaibi, Brunel University, September 2015.
- (iii) “Lead levels in teeth as a measure of life-time lead exposure in children”, Charuwan Manmee, Newcastle University, July 2012;
- (iv) “Drinking water salinity and the risk of (pre)eclampsia and gestational hypertension in coastal Bangladesh: impacts of climate change”, Aneire Khan, Imperial College, November 2012.

Supervisor for PhD, EngD, MSc dissertations on:

- Co-supervisor of PhD: "Environmental change impacts on risk of disease transmitted by *Aedes albopictus*", Neelam Iqbal (Liverpool University), started August 2022.
- Co-supervisor of PhD: “CO exposure in residential populations of England, and aspects of carbon monoxide poisoning focusing on neurological endpoints”, Ke-Ting Pan, University College London, completed in 2021.
- Co-supervisor of PhD: “Carbon Monoxide direct measurement as a gold standard to quantify carbon monoxide exposure and intoxication”, Stefania Oliverio (Brunel University), completed in December 2019;
- Co-supervisor of PhD: “Psychosocial responses to environmental incidents: a review and a proposed typology”, Lisa Page, Kings College, completed in 2010;
- Co-supervisor of Eng D (professional doctorate in engineering), on “Public health perspectives of municipal solid waste management”, Richard Mohan (Surrey University), completed in 2006;
- Adviser of PhD: “A cross-sectional study of the association between arsenic consumption from private drinking water supplies and measured biological levels in the population of Cornwall, UK“, Dan Middleton, Manchester University, completed in 2016;
- Adviser of PhD: “Cost-benefit analysis of environmental health interventions: present issues and future steps”, Carla Guerriero, London School of Hygiene and Tropical Medicine, completed in 2014;

- Adviser of PhD: “A Comparative assessment of public health impacts of heat and cold in the UK and Australia to inform climate change adaptation”, Katherine Arbuthnot, London School of Hygiene and Tropical Medicine”;
- Adviser of PhD: “Impacts of Climate Change induced displacement on Health and Social Indicators: a case study in sub-Saharan Africa”, Rebecca Parrish, University College London, submitted in 2022 with final examination expected in December 2022.
- Assessor of PhD: “The use of satellite data to define exposure to extreme weather events (heat and floods) for the estimation of health effects in Italy, Francesca de’ Donato, Imperial College, completed in ;

Supervisor of numerous MSc dissertations, most recently on human cancer risk in relation to exposure to arsenic from water, Bristol University;

Supervisor of numerous Specialist Registrars in Public Health, as well as environmental epidemiology/environmental health research projects conducted by scientists in Public Health England and elsewhere.

Professional Affiliations

International Society for Environmental Epidemiology

Faculty of Public Health of the Royal College of Physicians of the UK

Royal Society of Medicine (past President of Epidemiology and Public Health Section)

Society for Environmental Geochemistry and Health

Other Academic Responsibilities

- 1994-present **Academic Referee for Peer-reviewed Articles of International Journals**, including: Journal of Epidemiology and Community Health, Public Health, Journal of Public Health Medicine, Tropical Medicine & International Health, Health Policy and Planning, Epidemiologia e Prevenzione
- 2011-2012 **Guest Editor** for Issue on "Health, wealth, and ways of life", Social Science and Medicine, doi:10.1016/j.socscimed.2011.12.004
- 2007-present **Member, then President in 2009-2011, then Member of the Epidemiology and Public Health Section Council, Royal Society of Medicine**, one of the major providers of accredited postgraduate medical education in the United Kingdom. In these roles, I organised academic conferences at the Royal Society of Medicine on the following topics:
- “Indoor Air and Health: Research Update on NO₂ and Carbon Monoxide”;
 - “Waste: a public health issue” (Friday 16 November 2007) (<http://www.rsm.ac.uk/academ/epe101.php>);
 - “Unravelling the paradoxes: Economic recession, sustainable development and health” (Friday 6 February 2009) (<http://www.rsm.ac.uk/academ/epg103.php>);
 - “Multidisciplinary approaches to help tackle infectious diseases” (Friday 20 November 2009) (<http://www.rsm.ac.uk/academ/epj101.php>);
 - “Prosperity challenged: public health and the energy transition” (Friday 16 May 2014) (<https://www.rsm.ac.uk/events/events-listing/2013-2014/sections/epidemiology-public-health-section/epe01-prosperity-challenged-public-health-and-the-energy-transition.aspx>);
 - “Association or Causation in Miasmas and Mixtures: current reflections on Bradford Hill’s 1965 contribution to Public Health” (13-14 October 2016).

CONFERENCE PRESENTATIONS (selected)

- 2020 Keynote presentation on “Arsenic via ingestion of food: an epidemiological perspective and example from Central Europe” at the **workshop on “Future Secular Changes & Remediation of Groundwater Arsenic in the Ganga River Basin”** (FAR-GANGA) programme, funded by UK ODA Newton Fund (remote event COVID lockdown).
- 2019 Keynote presentations on: “Methods for Air Pollution Surveillance as a Task of a National Public Health Institute” at the **2nd China Conference on Environmental Health - CCEH 2019 & International Symposium on Air Pollution, Climate Change and Health**, Shenzhen, China, 11-14 June 2019.

- 2018 Oral presentation on “Environmental Public Health Tracking” at **Third Annual Meeting of the Health Protection Research Unit on “Environmental Change and Health**”, Exeter, UK, 8-9 February 2018.
- 2017 Keynote presentation on “Priority setting in environmental public health: an experience from England”, at the **1st China Conference on Environment and Health**, Beijing, China, 24-26 August 2017.
- 2016 Keynote presentation on “Economic, social and environmental transitions and health effects”, at **49th Conference of the Italian Public Health Association**, 16-19 November 2016, Napoli, Italy.
- 2016 **International Conference on Carbon Monoxide Risk Assessment & Management**, Toronto, Ontario, 9-10 November 2016. Session Chair for “Population exposure assessment”, and “Discussion on formation of a formal international network of collaborators on CO public health assessment and risk management”. Oral presentation on “Population exposure assessment in England”
- 2016 Keynote presentation and further oral presentation at “**Carbon monoxide+Impact**” conference organized by Cranfield University, 28-29 June 2016. Titles: “Overview of Past and Present UK CO Research and Developments”, and “CO data collection”.
- 2016 At “**Summit on Environmental Hazards and Health Effects**”, organised by US-CDC, Atlanta, 26-29 January 2016:
- Roundtable convenor on topic of "The Case of Environmental Interventions in the Built Environment for Prevention of Chronic Disease";
 - Roundtable convenor on topic of “Characterizing & Managing the Global Public Health Burden Due to Carbon Monoxide Exposures-Exploring Opportunities for International Collaboration”;
 - Presenter (oral) of "Exposure assessment for a Cohort Study of the Effects of Flooding on health in England";
 - Presenter (oral) of "The Sendai Framework for Disaster Reduction 2015-2030: What does this mean for the scientific & health community";
 - Presenter (oral) of "International Comparison of the Instigation & design of Health Registers in Epidemiological Response to Major Incidents".
- 2014 Introductory address at the **Conference on “Prosperity challenged: public health and the energy transition”** held on 16 May 2014 at the Royal Society of Medicine, London.
- 2014 Introductory presentation to the **International Workshop on “Environmental & Public Health Tracking to Advance Environmental Health”** held on the 14th and 15th May 2014, in Modena, Italy. Available at: http://www.epiprev.it/INPHET/Video_Modena01#Intro.
- 2013 **7th International Workshop on Contaminant Bioavailability**. Opening keynote lecture at this international conference organised by the British Geological Survey in Nottingham on 4-6th November 2013. The title of the talk was “Human exposure to chemicals via ingestion of water/food/soil: an epidemiological perspective”.
- 2013 **International Society of Environmental Epidemiology**. The Society’s 25th Annual Conference, Basel, Switzerland, August. As part of this conference I organised an international workshop on “Environmental Public Health Tracking: practical methods for priority setting and evaluation”. This was held on 19 August, 2013. The programme was agreed in a collaboration with CDC (US), European Centre for Disease Control (Sweden), InVS (France) and ARPA-ER (Italy). The key outcomes included plans for an international network on tracking to facilitate collaborations on methods, fellowships, and workshops on specific topics.
- 2012 **International Society of Environmental Epidemiology**. The Society’s 24th Annual Conference, Columbia, South Carolina, August 26 to 30, 2012. Oral presentation on: “Chemical hazards in private water supplies: a pilot study for environmental public health tracking in England”.
- 2010 **Scientific Conference of the Health Protection Agency**, in Warwick, September 2010. Oral presentation on “Association of fluorocarbons and immune biomarkers in the adult Mid-Ohio Valley population”
- 2008 **International Society of Environmental Epidemiology**. The Society’s 20th meeting, Pasadena, California, October 12-16, 2008. Oral presentation on “Exposure Assessments to Chemical Contaminants in Food”
- 2005 **Scientific Conference of the Health Protection Agency**, in Warwick, September 2005. Oral presentation on “Climate change and health protection”
- 2005 **Scientific Conference of the Health Protection Agency**, in Warwick, September 2005. Oral presentation on “Pollution in the urban Environment”
- 2004 **Scientific Conference of the Health Protection Agency**, in Warwick, September 2004. Oral presentation on “Calls to NHS Direct and heat: what relevance to UK Heat Wave Plan?”

- 2003 **Scientific Conference of the Health Protection Agency.** Oral presentation on “Role of awareness in reporting symptoms after an incident with diesel contamination. First Scientific Conference of the UK Health Protection Agency, Warwick, 15-17 September 2003.
- 2001 **International Society of Environmental Epidemiology.** The Society’s 13th meeting, Garmish-Partenkirchen, 1-5 September 2001. Oral presentation on “Lymphocyte stimulation in relation to ambient particulate matter: a cross-sectional survey in 17 cities of the Central European Study of Air pollution and Respiratory health (CESAR) ”.
- 2000 **World Congress on Lung Health, and European Respiratory Society 10th Annual Congress,** held in Florence 31 August-3 September 2000. Two oral presentations: (1) “Outdoor particulate matter and respiratory health in children of 25 areas in Central and Eastern Europe”; and (2) “Immune biomarkers in relation to chronic exposure to particulate matter: a cross-sectional survey in 17 cities of Central Europe”.
- 2000 **Environment & Health, a seminar at the London School of Hygiene and Tropical Medicine.** Oral presentation on “Air pollution and the immune system”.
- 2000 **Urban Environmental Health: Science and Policy,** a conference at South Bank University. Oral presentation: “Air pollution and children’s health in Central European cities”.
- 1999 **International Society of Environmental Epidemiology.** The Society’s 11th meeting, Athens, 4-7 September 1999. Oral presentation on “Central European Study on Air Quality and Respiratory Disease in Children (CESAR): Respiratory symptoms”.
- 1998 **International Conference on Arsenic Pollution of Ground Water in Bangladesh.** Organised by Dhaka Community Hospital in Dhaka, Bangladesh. Invitation to chair session on arsenic exposure and clinical aspects, and lecture on “Arsenic Contamination and Bladder Cancer in South West England: A Geographical Study”.
- 1997 **European Respiratory Society.** The Annual Congress held in Berlin 20-24 September 1997. Oral presentation on “Respiratory health status among primary school children in 25 communities in central Europe: the Central European Study of Respiratory Health and Air Pollution (CESAR)”.
- 1997 **Faculty of Public Health Medicine** summer conference, held on 26-27 June 1997. Oral presentation: “Housing in the Health of the Nation consultative document on Environment and Health”.
- 1996 **International Perspectives on Environmental and Occupational Health.** Funded invitation to lecture at a seminar organised by the Netherlands Institute for Health Sciences, Wageningen, The Netherlands. “The Central European Study on Air Quality and Respiratory Disease in Children (CESAR)”.
- 1995 **Environmental Geochemistry and Health.** The 13th European Conference of the Society for Environmental Geochemistry and Health, Aberdeen. Oral presentation: “Ecological study of arsenic contamination in Cornwall and Devon and bladder cancer”.
- 1987 **Italian Society of Physiology,** V Spring Meeting, Florence. Oral presentation: “Relationship between blood flow and fibre type composition in skeletal muscle during sleep”.

PUBLICATIONS

Peer- reviewed articles:

- Crabbe H, Verlander NQ, Iqbal N, Close R, White G, **Leonardi GS**, Busby A. (2022) *As safe as houses; the risk of childhood lead exposure from housing in England and implications for public health.* BMC Public Health, in press.
- Close, R. M., Iqbal, N., Jones, S. J., Kibble, A., Flanagan, R. J., Crabbe, H., & **Leonardi, G. S.** (2022). *Fatal Unintentional Non-Fire Related Carbon Monoxide Poisoning: Data from Narrative Verdicts in England and Wales, 1998–2019.* International journal of environmental research and public health, 19(7), 4099.
- Piscitelli, P., Miani, A., Setti, L., De Gennaro, G., Rodo, X., Artinano, B., ...**Leonardi GS**, ... & Domingo, J. L. (2022). *The role of outdoor and indoor air quality in the spread of SARS-CoV-2: Overview and recommendations by the research group on COVID-19 and particulate matter (RESCOP commission).* Environmental Research, 211, 113038.
- Ruadze, E.; **Leonardi, G.S.**; Saei, A.; Khonelidze, I.; Sturua, L.; Getia, V.; Crabbe, H.; Marczylo, T.; Lauriola, P.; Gamkrelidze, A. (2021). *Reduction in Blood Lead Concentration in Children across the Republic of Georgia Following Interventions to Address Widespread Exceedance of Reference Value in 2019.* Int. J. Environ. Res. Public Health, 18, 11903. <https://doi.org/10.3390/ijerph182211903>.

- Pan K-T, **Leonardi GS**, Ucci M, Croxford B. (2021). *Can Exhaled Carbon Monoxide Be Used as a Marker of Exposure? A Cross-Sectional Study in Young Adults*. *Int. J. Environ. Res. Public Health* 182, 1893. <https://doi.org/10.3390/ijerph182211893>.
- Lopez-Espinosa M-J, Carrizosa C, Luster MI, Costa O, Margolick JB, **Leonardi GS**, Fletcher T. (2021). *Perfluoroalkyl substances and immune cell counts in adults from the Mid-Ohio Valley (USA)*. *Environment International* Volume 156, 106599, ISSN 0160-4120, <https://doi.org/10.1016/j.envint.2021.106599>.
- Lauriola, P., Serafini, A., Santamaria, M., Guicciardi, S., Kurotschka, P. K., **Leonardi, G. S.**, Zeka, A., Segredo, E., Bassi, M. C., Gokdemir, O., de Tommasi, F., Vinci, E., Romizi, R., McGushin, A., Barros, E., Abelsohn, A., & Pegoraro, S. (2021). *Family doctors to connect global concerns due to climate change with local actions: State-of-the art and some proposals*. *World Medical & HealthPolicy*, 1–25. <https://doi.org/10.1002/wmh3.448>.
- Lauriola P, Martín-Olmedo P, **Leonardi GS**, Bouland C, Verheij R, Dücker MLA, Van Tongeren M, Laghi F, Van Der Hazel P, Gokdemir O, Segredo E, Ethel RA, Abelsohn A, Bianchi F, Romizi R, Miserotti G, Romizi F, Bortolotti P, Vinci E, Giustetto G, Santamaria M, Serafini A, Pergoraro S, Agius R, Zeka A. (2021). *On the importance of primary and community health care in relation to global health and environmental threats: lessons from the COVID-19 crisis*. *British Medical Journal: Global Health* 6(3), e004111.
- Guercio V, Pojum IC, **Leonardi GS**, Shrubsole C, Gowers AM, Dimitroulopoulou C, Exley KS. (2020). *Exposure To Indoor And Outdoor Air Pollution From Solid Fuel And Respiratory Outcomes In Children In Developed Countries: A Systematic Review And Meta-Analysis*. *Science of the Total Environment*, 142-187.
- Parrish R, Colbourn T, Lauriola P, **Leonardi G**, Hajat S, Zeka A. (2020). *A critical analysis of the drivers of human migration patterns in the presence of climate change: a new conceptual model*. *Int. J. Environ. Res. Public Health*, 2020 Sep; 17(17): 6036. doi: 10.3390/ijerph17176036.
- Zeka A, Tobias A, **Leonardi G**, et al. (2020). *Responding to COVID-19 now and in the future requires strong epidemiologic evidence of its environmental and societal determining factors*. *Lancet Planetary Health*, 4 (9). e375-e376. DOI: [https://doi.org/10.1016/S2542-5196\(20\)30169-8](https://doi.org/10.1016/S2542-5196(20)30169-8).
- Roberts, DJ, Morris, J, Wood, A, Verlander, NQ, **Leonardi, GS**, Fletcher, T. (2020). *Use of public water supply fluoride concentration as an indicator of population exposure to fluoride in England 1995-2015*. *Environmental Monitoring and Assessment*. 192: 514. <https://doi.org/10.1007/s10661-020-08304-3>.
- Roca-Barceló A, Ghosh RE, Crabbe H, Fletcher T, Close R, Hansell AL. **Leonardi GS**, Piel FB. (2020). *Temporal trends and demographic risk factors for hospital admissions due to carbon monoxide poisoning in England*. *Preventive Medicine*, 136.
- Mulchandani, R., Armstrong, B., Beck, C. R., Waite, T. D., Amlôt, R., Kovats, S., **Leonardi G**, Rubin J, Oliver, I. (2020). *The English National Cohort Study of Flooding & Health: psychological morbidity at three years of follow up*. *BMC public health*, 20(1), 1-7.
- Lauriola, P., Crabbe, H., Behbod, B., Yip, F., Medina, S., Semenza, J. C., ... & **Leonardi GS**. (2020). *Advancing Global Health through Environmental and Public Health Tracking*. *International journal of environmental research and public health*, 17(6), 1976.
- Piel, F. B., Parkes, B., Hambly, P., Roca-Barceló, A., McCallion, M., **Leonardi, G.**, ... & Hansell, A. L. (2020). *Software application profile: the Rapid Inquiry Facility 4.0: an open access tool for environmental public health tracking*. *International Journal of Epidemiology*, 49(Supplement_1), i38-i48.
- Lauriola P, Parrish R, **Leonardi G**, Colbourn T, Hajat S, Zeka A. (2019). *The determinants of migration movements under the impacts of climate change: some brief introductory concepts [Italian-I determinanti dei movimenti migratori in conseguenza di cambiamenti climatici: brevi spunti introduttivi]*. *Sistema Salute: La rivista Italiana di educazione sanitaria and promozione di salute (Health Systems: The Italian journal for health education and health promotion)*. *Sistema Salute*, 63(2): pp. 196-210. ISSN 2280-0166.
- Lauriola, P., Serafini, A., Santamaria, M. G., Pegoraro, S., Romizi, F., Di Ciaula, A., Terzano, B., deTommasi, F., Cordiano, V., Guicciardi, S., Bernardi, M., **Leonardi, G.**, Romizi, R., Vinci, E., & Bianchi, F. (2019). *Sentinel practitioners for the environment and their role in connecting up global concerns due to climate change with local actions: Thoughts and proposals*. *Epidemiologia E Prevenzione*, 43(2–3), 129–130. DOI: 10.19191/EP19.2-3.P129.051.

- Pan, K. T., **Leonardi, GS**, Croxford, B. (2019). *Factors Contributing to CO Uptake and Elimination in the Body: A Critical Review*. International Journal of Environmental Research and Public Health 16.
- Pan, K. T., Shen, C. H., Lin, F. G., Chou, Y. C., Croxford, B., **Leonardi, G.**, & Huang, K. L. (2019). *Prognostic factors of carbon monoxide poisoning in Taiwan: a retrospective observational study*. BMJ open, 9(11).
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- Fleming L, Tempini N, Gordon-Brown H, Nichols G, Sarren C, Vineis P, **Leonardi G**, Golding B, Haines A, Kessel A, Murray V, Depledge M, Leonelli S (2018) *Big Data in Environmental and Human Health*. Oxford Research Encyclopaedia of Environmental Science.
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- Crabbe H, T. Fletcher, R. M. Close, M. J. Watts, E.L. Ander, P.L. Smedley, N. Q. Verlander, M. Gregory, D. R. Middleton, D. A. Polya, **G. S. Leonardi**. *Population Hazard Ranking Method for Arsenic in Private Water Supplies: Relation to Bedrock Geology*. Int. J. Environ. Res. Public Health 2017, 14, 1490; doi:10.3390/ijerph14121490.
- Middleton, D. R., M. J. Watts, D. J. Beriro, E. M. Hamilton, **G. S. Leonardi**, T. Fletcher, R. M. Close and D. A. Polya. *Arsenic in residential soil and household dust in Cornwall, south west England: potential human exposure and the influence of historical mining*. Environ Sci Process Impacts. 2017, Mar 1, DOI: 10.1039/c6em00690f.
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- Behbod B, Lauriola P, **Leonardi G**, Crabbe H, Close R, Staatsen B, Knudsen LE, de Hoogh K, Medina S, Semenza JC, Fletcher T. *Environmental and public health tracking to advance knowledge for planetary health*. Eur J Public Health 2016; 26 (6): 900. doi: 10.1093/eurpub/ckw176.
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Invited participation at scientific meetings:

- 2nd China Conference on Environmental Health - CCEH 2019 & International Symposium on Air Pollution, Climate Change and Health, Shenzhen, 11-14 June 2019. Invited speaker on “New guidance on public health impact of industrially contaminated sites, produced by a network of 33 institutes in Europe and WHO”.
- 1st China Conference on Environment and Health, Beijing, China, 24-26 August 2017. Invited speaker on “ The application of the Drivers-Pressures-States-Exposures-Effects-Actions framework to environmental public health in England”.
- 49th National Conference of Italian Public Health Association, 16-19 Nov 2016 Naples, Italy. Invited speaker on the topic: “Economic, social and environmental transitions, and effects on health”, Thursday 17th Nov 2016. (<https://www.eiseverywhere.com/ehome/index.php?eventid=159652&tabid=430102>).
- “Carbon monoxide+Impact” Conference held at Cranfield University on 28-29 June 2016. Invited keynote speaker.
- Summit on Environmental Hazards and Health Effects from January 26 – 28, 2016, Atlanta, USA. Invited as moderator for the International Plenary session on Thursday, January 28.
- First Plenary Conference COST Action IS1408 Industrially Contaminated Sites and Health Network (ICSHNet) Rome, Istituto Superiore di Sanità, 1-2 October 2015. Chair of session on “Contaminated sites and health: the scientific debate”.

7th International Workshop on Contaminant Bioavailability. Opening keynote lecture at this international conference organised by the British Geological Survey in Nottingham on 4-6th November 2013.

Workshop on Public Health Surveillance and Climate Change organised by InVS (French Institute for Public Health Surveillance), Paris 25-26 March 2010. Invited presentation on “Surveillance of extreme events”.

1st National Workshop on Environmental Pathologies: First Proposals for a Network of Sentinel Physicians on Diseases of Environmental Origin, Bologna, Italy, 15 November 2010. Invited presentation on “Environment and health: environmental health surveillance in England”.

Symposium on Exogenous Factors and the Immune System at the Thirteenth Conference of the International Society for Environmental Epidemiology, Munich 2-5 Sept 2001. Invited speaker.

Exploratory meeting “Epidemiology of Occupational and Environmental Factors Associated with Autoimmunity”, May 10-12, 2000, Bilthoven, The Netherlands. Organised by Dutch National Institute of Public Health and the Environment (RIVM), US National Institute of Environmental Health Sciences (NIEHS), World Health Organisation.

International Seminar: “Environmental Epidemiology and Decision Making in the Russian Federation: Current Experiences and Future Actions” – September 8-9, 1999, Athens, Greece. Organised by International Bank for Reconstruction and Development – IBRD (World Bank), Environmental Management Project in Russia (EMP), Environmental Epidemiology Component (EEC).

WHO/IPCS Working Group Meeting on Chemical Accidents, 9-11 March 1999, Cardiff. Organised by the National Forum for Work on Response to Chemical Accidents and Surveillance of Health Effects of Environmental Chemicals.

Research grants awarded:

Date held	Title	Awarding body	Amount
2016-2019	Carbon Monoxide direct measurement as a gold standard to quantify CO exposure and intoxication, with Lausanne University, Switzerland, and Brunel University, London	Gas Safety Trust	£150,000
2016-2018	Pilot study to develop protocol to monitor cohb at post mortem; with Cranfield University	Gas Safety Trust	£99,859
2008-2013	Study of endocrine, liver and neurological effects of PFOA, a persistent pollutant; with LSHTM	West Virginia Court, USA	£200,000 for PHE work
2008-2009	A European Network for the Training and Development of Public Health (Environment) Physicians (PHEEDUNET) (with Irene Kreis of Neijmegen University, The Netherlands)	European Commission Health and Consumer Protection Directorate-General	200,000 Euros
2008-2010	Integrated Framework for Improving Sustainability of the Indoor Environment (INTRAWISE) (PI Adisa Azapagic of Manchester University)	Engineering and Physical Sciences Research Council	£ 2m (approx)
2005-2008	Integrated Assessment of Health Risks of Environmental Stressors in Europe (INTARESE) (with David Briggs at Imperial and 31 other partners across Europe)	European Union 6th Framework Programme	£ 140,000 (HPA work)
2005-2009	Pollution in the Urban Environment (PI Adisa Azapagic at Surrey Univ, then Manchester Univ)	Engineering and Physical Sciences Research Council	£ 1,655,000
2002-2005	Neuropsychological effects of chronic exposure to carbon monoxide in the indoor air (with Glyn Volans at Guy’s and Paul Wilkinson at LSHTM)	Department of Health Two separate grants	£ 152,377+ £80,000
2002-2004	Arsenic Health Risk Assessment and Molecular Epidemiology (with Tony Fletcher) Contract QLRT-	European Union 5th Framework Programme	£ 1,049,200

	2001-00264 - Quality of Life and Management of Living Resources, FP5		
2000-2001	Arsenic mitigation and Epidemiology Project in Bangladesh, inception phase (with Tony Fletcher)	Department for International Development	£ 38,000
1997-1999	Chemical Incident Health Impact Prediction (with Tony Fletcher)	Department of Health	£ 17,000
1996	Air pollution and cardiac morbidity in general practice: a geographical and temporal analysis (with Paul Wilkinson)	British Heart Foundation	£ 29,700

Consultancies:

Adviser to the Norwegian Institute of Public Health, on design of capacity building on public health response to chemical threats and environmental epidemiology in low and middle income countries (Moldava, Palestine, Ghana and Malawi), December 2017.

Partner of consortium selected by the EU Twinning Programme, to visit to Republic of Georgia on 14th June 2016 for the project: "TWINNING PROJECT GE/22 "Institutional Strengthening of Environmental Health System of Georgia".

Adviser to the World Health Organisation European Centre for Environment & Health, on the EUROHEAT study, aimed at improving public health responses to extreme weather/heatwaves, from June 2005 until 2007.

PFOA exposure and possible effects on risk of cancer, cardiovascular disease, and other health endpoints. Development of epidemiological methods for studies in communities in the proximity of the Dupont factory in West Virginia, US. I have been asked to contribute medical epidemiology input into the epidemiology studies protocols, starting from November 2005.

Air pollution in 9 cities of Russia. Workshop in London, July 2000. Funded by Harvard School of Public Health and World Bank. I contributed to preparation of a questionnaire for an air pollution study, preparing and implementing a data management protocol, and approaches to analysis.

Arsenic in drinking water of Hungary and Romania. Reproductive and carcinogenic effects of arsenic in drinking water in central Europe. Workshop in Budapest, October 1996. Funded by World Health Organization European Centre for Environment and Health, Rome Division. Purpose of workshop was to review results of pilot studies and need for further epidemiological investigations.

Committee membership:

2016-present	Member of PHE Data Guardian (Caldicott) Committee, and Associate Caldicott Guardian for PHE Centre for Radiation, Chemical and Environmental Hazards
2016-present	Member of PHE Surveillance Strategy Group
2011-present	Member of Field Epidemiology Training Programme supervisors network
2011-present	Member of HPA/PHE Environmental Public Health Surveillance project board
2010-present	Member of Small Area Health Statistics (SAHSU)/PHE Liaison Group
2010-present	Member of HPA/PHE Environmental Public Health Tracking project board
2010-present	Member of HPA/PHE Climate Change steering group
2008-present	Member of Section of Epidemiology and Public Health Council, Royal Society of Medicine
2009-2013	Member of the International Scientific Advisory Board for the MRC/HPA (now PHE) Centre for Environment and Health

- 2008-2013 Member of European Council of the Society for Environmental Geochemistry and Health
- 2009-2011 President of Section of Epidemiology and Public Health Council, Royal Society of Medicine
- 2006-2008 Member of the HPA CHPD Environmental Public Health Tracking Steering Group
- 2004-2008 Member of the HPA Surveillance Strategy Development Programme Board
- 2004-2005 Member of the HPA LARS surveillance committee
- 1999-2001 Member of the UK Health Policy Committee of the London School of Hygiene and Tropical Medicine.

