

Curriculum Vitae

Personal information

First name / Surname **Mariana Alves-Pereira**

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Nationality Portugal



Academic Background

Date 2010
Title of qualification awarded **Doctoral degree in Environmental Sciences**
Name and type of organisation providing education Universidade Nova de Lisboa,
Caparica, Portugal

Date 2000
Title of qualification awarded **Masters degree in Biomedical Engineering**
Name and type of organisation providing education Drexel University
Philadelphia, PA, USA

Date 1995
Title of qualification awarded **Bachelors degree in Physics**
Name and type of organisation providing education State University of New York
Stony Brook, NY, USA

Dates 1990
Title of qualification awarded **12th year High School Diploma**
Name and type of organisation providing education Algés Secondary School
Lisbon, Portugal

Dates 1988
Title of qualification awarded **10th-11th years High School – Area of Technological Sciences**
Name and type of organisation providing education Fontes Pereira de Melo Secondary School
Porto, Portugal

Scientific Awards

2006 - Prevent More Live Better Scientific Research Award
Diagnosis of Vibroacoustic Disease for Legal & Forensic Purposes.
Attributed by the Instituto de Segurança Higiene e Saúde no Trabalho (Portuguese Governmental Institute for Safety, Hygiene & Health in the Workplace).

2005 - Thomé Villar/Boehringer Ingelheim Research Award
Participation of the Central Airways in Vibroacoustic Disease.
Attributed by the Portuguese Lung Society (Sociedade Portuguesa de Pneumologia).

1999 - Young Investigator Award Finalist
Pericardial Thickening in Commercial Airline Flight Crew.
Attributed by the Space Medicine Branch of the Aerospace Medical Association (USA).

Expertise

Acoustics	Infrasound and low frequency noise (ILFN) exposure. Conducted extensive acoustical measurements and analyses in 1/3- and 1/36-octave band, dB Linear, within industrial, urban and residential areas.
Clinical Medicine	Design, implementation and data analyses of clinical studies pertaining to ILFN-exposed populations, including gathering of patient medical and noise exposure histories.
Cellular Biology	Interpretation of light and electron microscopy imaging comparing ILFN-exposed vs. non-exposed cell and tissues of both human and animal models. Analyses of the biological responses to ILFN exposure based on principles of materials and structural engineering and on cytoskeleton dynamics.
Bioengineering	Analysis and interpretation of the response of actin- and tubulin-based structures to ILFN exposures. First to associate cellular and tissue tensegrity architecture to better understand the biological response observed in ILFN-exposed specimens.
International Expert Witness & Consultant	-- Vibroacoustic Disease -- Effects of ILFN on occupationally- or environmentally-exposed human populations.

Teaching Experience

	Associate Professor since 2010 Adjunct Professor since 2005. Assistant Professor since 2002
Dates	Since 2009
Main activities and responsibilities	Coordinating/ Teaching: Physics (Occupational Safety & Health Program) Epidemiology (Occupational Safety & Health Program) Workplace Safety & Health (Safety & Security Program)
Name and address of employer	School of Economic Sciences & Organizations Universidade Lusófona Campo Grande 376, 1749-024 Lisbon, Portugal
Type of business or sector	Higher education
Dates	2007-2013
Main activities and responsibilities	Teaching: Biophysics Lab (Pharmaceutical Sciences Program)
Name and address of employer	School of Health Sciences and Technologies Universidade Lusófona Campo Grande 376, 1749-024 Lisbon, Portugal
Type of business or sector	Higher education
Dates	2005-2007
Main activities and responsibilities	Teaching: Physics (Nursing Program), Coordinating/ Teaching: Biomaterials (Pre-Bologna Radiology Program) Non-ionizing Radiation (Pre-Bologna Radiology Program) Experimental Statistics (Pre-Bologna Radiology Program)
Name and address of employer	Ribeiro Sanches School of Health Sciences Universidade Lusófona Rua dos Telhais aos Olivais, 8-8ª, 1900-693 Lisbon, Portugal
Type of business or sector	Higher education
Dates	2002-2005
Main activities and responsibilities	Coordinating/ Teaching: Acoustical Pollution (Environmental Engineering Program)
Name and address of employer	Department of Environmental Sciences & Engineering Universidade Nova de Lisboa Quinta da Torre, 2829-516 Caparica, Portugal
Type of business or sector	Higher education

Work Experience

Dates	1988-2013
Occupation or position held	Senior researcher, Assistant Coordinator for the Vibroacoustic Disease Project
Main activities and responsibilities	Measure low frequency noise; Patient interviews; Interpreting electron microscopy imaging; Data analyses; Preparation of scientific papers for publication; Oral presentations at international scientific meetings and conferences; Organization of scientific conferences; Expert court witness.
Name and address of employer	Centro da Performance Humana, Estrada Nacional 10, Edificio Cinema, 1º Piso, 2615 Alverca, Portugal
Type of business or sector	Biomedical research in occupational medicine (non-for-profit enterprise)
Dates	2010-2012
Occupation or position held	Administrator
Main activities and responsibilities	Liaison between NASA officials and European Governmental officials and private enterprises; Procure projects, actions and activities related to sustainable energy and environmental issues of mutual interest to NASA; Preparation of status reports; Oral presentations of ongoing projects at NASA/C3P Annual Technical Workshops.
Name and address of employer	Center for Pollution Prevention (C3P)
Type of business or sector	Ministry of Environment (non-for-profit enterprise)
Dates	2002-2005
Occupation or position held	Fellowship recipient
Main activities and responsibilities	Write, enact and develop research project funded by Portuguese Government (POCTI/FCT): "Low frequency noise in public transportation systems in the Greater Lisbon area"
Name and address of employer	IMAR – Instituto do Mar, Pólo da Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Quinta da Torre, 2829-516 Caparica, Portugal
Type of business or sector	Higher education / Research
Dates	Feb-Jul 2000
Occupation or position held	Associate researcher
Main activities and responsibilities	PCR studies investigating the genetic expression of ubiquitin and ciclooxigenase-2 in cells exposed to cadmium.
Name and address of employer	Department of Biological Sciences, Hunter College, City University of New York
Type of business or sector	Higher education / Research
Dates	1991-1995
Occupation or position held	Librarian
Main activities and responsibilities	Catalogue new books and scientific journals; Manage book lending; Assist with inquiries.
Name and address of employer	Math/Physics Library State University of New York, Stony Brook, NY, USA
Type of business or sector	Academic
Dates	1988-1990
Occupation or position held	Technical translator
Main activities and responsibilities	Quality control inspection manuals for the Lockheed C-130 Hercules, P-3P Orion, and Aerospatiale SA-330 Puma aircraft; Avionics, fuel systems and ground support equipment manuals; Scientific research papers developed by the Medical Division Research Team.
Name and address of employer	OGMA-Indústria Aeronautica de Portugal Parque Aeronautico de Alverca, 2615-173 Alverca, Portugal
Type of business or sector	Aeronautical industry

Dates 1982-1985
Occupation or position held **Summer-hire** (Commercial Section, US Air Force Section, US Information Services)
Main activities and responsibilities Administrative tasks; Written and simultaneous translations; Public relations. In 1985, collaborated in the organization of President Ronald Reagan's official visit to Lisbon.
Name and address of employer United States Embassy
Av. das Forças Armadas, 1600-081 Lisbon, Portugal

Training Programs

Dates 2001
Title of qualification awarded **Epidemiological Surveillance Technician**
Name and type of organisation providing education Institute of Preventive Medicine,
School of Medicine, University of Lisbon

Dates 1990
Title of qualification awarded **C-130 Hercules: Specialization in Engine, Propellers and Auxiliary Power Unit.**
Name and type of organisation providing education Lockheed Martin Official Training Center
OGMA-Indústria Aeronautica de Portugal
Parque Aeronautico de Alverca, 2615-173 Alverca, Portugal

Dates 1987
Title of qualification awarded **Computer programmer** (DOS, DBase III, Cobol, WordStar)
Name and type of organisation providing education Instituto de Tecnologia Avançada para a Educação
Porto, Portugal

Languages

Native speaker: **English/Portuguese**
Other languages: **French, Spanish**

Relevant publications Alves-Pereira M, Bakker HHC (2017) *Occupational and residential exposures to infrasound and low frequency noise in aerospace professionals: Flawed assumptions, inappropriate quantification of acoustic environments, and the inability to determine dose-response*. Scientific Journal on Aerospace Engineering and Mechanics, 1(2):83-98.

Alves-Pereira M, Castelo Branco NAA (2007) *Vibroacoustic disease: Biological effects of infrasound and low frequency noise explained by mechanotransduction cellular signaling*. Progress Biophysics & Molecular Biology, 93: 256-279.

Alves-Pereira M, Joanaz de Melo J, Castelo Branco, NAA (2005) *Pericardial biomechanical adaptation to low frequency noise stress*. In: A. Méndez-Vilas (ed.) Recent Advances in Multidisciplinary Applied Physics. Elsevier: London, 2005: 363-7. (ISBN: 978-0-08-044648-6)

Alves-Pereira M (1999) *Noise-induced extra aural pathology. A review and commentary*. Aviation, Space and Environmental Medicine, 70 (3, Suppl.): A7-A21.

(Annex I: Complete List of Publications)