

CURRICULUM VITAE

Surname: Pezzoli *Name:* Alessandro

Current position: Adjunct Professor with tenure (Senior Lecturer A) in “Meteo-Hydrology Risk Assessment” for the MSc in Geography and in “Weather Risk Management” for the MBA in Environmental Economics in University of Turin.
Coordinator of the Master in Sports Engineering – Politecnico di Torino

Education from the age of 16:

Age 16 to 18: Scientific high school.

Age 18 to 23: Turin Polytechnic - Degree in Civil Engineering - Hydraulics Section (BEng+MEng). Thesis on “Fundamental and complementary problems of the Venetian lagoon system” (Thesis in Marine Engineering; subjects: pollution of the sea and shipping's safety).

Age 23 to 24: Italy Naval Academy. 7 month course (3 month: course + 4 month: training) for Naval Officers in Harbour Offices (Coast Guard). MSc in Port Operations.

Age 26: Specialisation course in “Modern computerised technologies to control hydrological phenomena” at ISMES, Bergamo (Italy).

Age 29: Specialisation course in “Marine meteorology” at C.R.E.P.S., organised by the French Ministry of Youth and Sport, in Antibes (France).

Age 30 to 34: Ph.D. in the Science of the Universe (sect. Meteorology and Oceanography; tutor: Prof. F. Resch) at University of Toulon (France); title of the Thesis: “Influence des prévisions météo - marines sur les échanges particuliers Océans - Atmosphère en zone côtière” (Atmospheric Model RAMS, UNIX, Fortran 77).

Age 32 to 32: Specialisation Course in “Numerical Modelling for Wave's Action in Coastal and Offshore Structures” (WEGEMT SCHOOL-TMR C.E.E.).

Age 33 to 33: Specialisation Course in “MATLAB I”, organised by Teoresi.

Age 33 to 33: Specialisation Course in “New technologies for boat's building” organised by Politecnico di Milano.

Age 35 to 35: Specialisation Course in “Radarmeteorology I” organised by GNDICI-Italian Council of Research

Age 36 to 36: Specialisation Course in “Weather and Sailing” organized by RIM and RMS (Southampton UK).

Age 36 to 36: Summer School “Geophysical Turbulence” organised by University of Toulon-Var.

Age 37 to 37: Specialisation Course in “Advanced MATLAB”, organised by Teoresi/The MathWorks.

Age 37 to 37: Specialisation Course in “Statistics for MATLAB”, organised by The MathWorks Italia.

Age 38 to 38: Specialisation Course in “Radarmeteorology II” organised by GNDICI-Italian Council of Research

Age 39 to ...: Training's Courses in Meteorology & Oceanography operated by the COMET-UCAR

Age 42 to 42: Specialisation course in “Project Management” organised by PMP-Online.

Age 42 to ...: Training's Courses in “Project Management” operated by Project Management Institute

Age 44 to 45: Specialisation Courses in “Sport Research” and in “Sport Performance Analysis” organised by Sport School – Italian Olympic Committee.

Diplomas and titles:

1984: Scientific high school diploma.

1989: Degree in Civil Engineering - Hydraulics Section; BEng+MEng (Turin Polytechnic).

1990: MSc in Port Operations (Italian Naval Academy).

1990: Professional title of the Civil Engineer; CEng.

1994: Member of Italian Meteorological Society.

1995: Member of Italian Society of Engineers, Senior Engineering; Civil, Environmental & Industrial Sectors.

2001: PhD in Meteorology and Oceanography (Toulon and Var University).

2002: Associate Fellow of Royal Institute of Navigation (AFRIN).

2003: Member of CGSI IAPSO-IAHR, joint Commission of Groundwater-Seawater Interactions.

2008: Member of Project Management Institute

2009: Certificate Project Management Professional (PMP)

2009: Member of International Sports Engineering Association (ISEA)

2011: Accredited Scientific Level 4 Sport Performance Analyst by ISPAS

2013: Member of World Habitat Cooperation Centre – DIST (Politecnico di Torino and University of Turin)

2014: Member of International Society of Biometeorology

2014: Eligible Prometeo Project – Ecuador (eligible to research and teach in University and Research Institution of Ecuador Republic)

2014: Fellow of Royal Geographical Society (FRGS)

2015: Visiting Professor in Escuela Superior Politecnica del Litoral – Faculty of Marine Engineering, Biology, Oceanography and Environmental Studies (Ecuador)

2017: Fellow of Royal Meteorological Society – FRMetS (Associate Fellow since 2003 and Member since 1999).

Professional career:

2004-....: Adjunct Professor with tenure (Senior Lecturer A) in Meteo-Hydrology Risk Assessment and Weather Risk Management at Turin Polytechnic and Turin University

- Adjunct Professor with tenure (Senior Lecturer A) in Water Supply & Wastewater Engineering at Turin Polytechnic.
- Member of Editorial Board of “Atmospheric and Climate Sciences”, “Climate”, “Journal of Climatology and Weather Forecasting”, “Current Advances in Environmental Sciences”, “Studies in Atmospheric Science”, “Journal of Scientific Research and Reports”, “Sports Engineering”, “Sports”.
- Managing Editor of “De Gruyter Open” Open Access book in Environmental Studies (http://www.degruyteropen.com/you/book-author/subjects/environmental_studies/).
- Guest Editor of the Special Issue “Climate Impacts on Health” – Climate Journal (Ed. MDPI: http://www.mdpi.com/journal/climate/special_issues/climate_impacts_health).
- Member of the Organizing Committee of “2013 Hydrology, Ocean and Atmosphere Conference (HAOC2013)”, Beijing – China (20-22 September 2013).
- Member of “Rede Litoral Project” (Brazil) – “Climate Change and impact on the San Paolo coastal area” (**Research grant:** 50.000€ in a project funded of 500.000€).
- Reviewer for the “Meteorological Applications”, “Advances in Geosciences”, “Atmospheric and Climate Sciences”, “Environmental Monitoring and Assessment”, “Advance Research in Meteorological Sciences”, “Journal of Climatology and Weather Forecasting”, “Environment International”.
- Visiting Professor in “Meteorology and Oceanography” for PhD course in “Marine Engineering” at Escola Politecnica – Universidade de Sao Paolo (Brazil).
- Visiting Professor in “Marine Meteorology” for the Marine Engineering at Institut des Sciences de l’Ingenieur de Toulon et du Var - University of Toulon and Var (France).
- Scientific Adviser of R.U. MeteoSport - Interuniversity Department of Regional and Urban Studies and Planning, Politecnico di Torino & University of Turin
- Visiting Professor in “Applied Meteorology for the Sport” for the Faculty of Physical Education and Sport Sciences, Coaching Specialisation Degree – Turin University (since 2008).
- Visiting Professor in “Meteorology for Sailing” for the MSc in “Yachting Management” – Università del Foro Italico (Rome – Italy).
- Visiting Professor in “Meteorology for Sailing Sport” for the Faculty of Physical Education and Sport Sciences, Coaching Specialisation Degree, Sailing’s Sport – Semmelweis University (Budapest – Hungary).
- Responsible for the realisation and management of the contract between the Department of Environment (DIATI) and Swedish Sailing Federation for the preparation of the Tokyo Olympic Games 2020 (**Research funds:** 35.000€).
- Responsible for the realisation and management of the contract between the Department of Environment (DIATI) and Swedish Sailing Federation for the preparation of the Rio de Janeiro Olympic Games 2016 (**Research funds:** 30.000€).
- Responsible for the realisation and management of the contract between the Department of Hydraulics T.I.C. and Swedish Sailing Federation for the preparation of the London Olympic Games 2012 (**Research funds:** 22.000€).
- Responsible for the realisation and management of the contract between the Department of Hydraulics T.I.C. and Victory Challenge for the preparation of the America's Cup 2007 (Valencia – Spain) (**Research funds:** 36.000€).

2001-2004: Visiting Professor (Sect. Meteorology, Physical Oceanography and Physics of Environment) in “TP Mer”- Marine Engineering at Institut des Sciences de l’Ingenieur de Toulon et du Var - University of Toulon and Var – France. Post-Doctoral Research Period.

1995 - 2003: Assistant Professor with tenure (Lecturer) in Hydrology and River Engineering at Turin Polytechnic.

- Management of SOCRATES/ERASMUS program between Turin Polytechnic and the Marine Engineering of the Institut des Sciences de l’Ingenieur de Toulon et du Var - University of Toulon and Var – France.
- Appointed Adjunct Head in the Research “The risk of the meteomarine forecasts in limited area” funded by Italian Department of Research (**Research funds:** 25.000€).
- Responsible of Research “Operational meteohydrology and forecasting in tropical zone” funded by Tod’s-Della Valle (**Research grant:** 1.500€).
- Director of Research “Real-time forecasting and control” funded by MIUR. Responsible for use of hydrodynamical model MIKE 21-DHI (**Research funds:** 10.000€).
- Senior Fellowship subsidised by N.A.T.O., for the research project “Actual methods for meteo and sea wave forecast: applications and control of their reliability” undertaken at MétéoMer (tutor: Dr. Ing. Pierre Lasnier) (**Research grant:** 5.000€).

- Meteorologist for Austrian Sailing Federation for the Athens Olympic Games 2004 and Beijing 2008 (**Research funds:** 30.000€).
- Meteorologist of “Tiscali Global Challenge”. Meteorological analysis (statistical and synoptical) of the different “legs” of the “Arounde Alone 2002-2003” (**Research funds:** 10.000€).
- Responsible for the realisation and management of the contract between the Department of Hydraulics T.I.C. and Mascalzone Latino Challenger for America's Cup 2003. "Chief Meteorologist" for Mascalzone Latino America's Cup Challenger 2003 in Auckland (NZ) (**Research funds:** 36.000€).
- Responsible for the realisation and management of the contract between the Department of Hydraulics T.I.C. and the Prada Challenger for America's Cup 2000. Meteorologist for the training in Punta Ala and analyst of the meteorological data for the Hauraki Gulf (Auckland – NZ) (**Research funds:** 15.000€).

Professional career (continue):

1991-1994: Assistant Professor in Hydraulic Constructions at Turin Polytechnic.

- Junior Fellowship subsidised by COTRAO (Communauté de Travail des Alpes Occidentales), for the research project “Meteorology in the design of hydraulic works and problems related to environmental protection” undertaken at the LRH of the EPFL (tutor: Prof. W.H. Graf) (**Research grant:** 4.000€).
- Appointed head of the installation and management of the Meteohydrological Laboratory of the Department of Hydraulics.

Teaching activities:

From 1991: Assistant at didactic and laboratory exercises as part of the courses in Hydraulics, Hydraulics II and Hydroelectric systems at Turin Polytechnic.

From 1991: Member of the examining boards for the courses in Hydraulics, Hydraulics II and Hydrology at Turin Polytechnic.

From 1991: Member of the examining boards for the entrance exams and aptitude tests for students enrolling at Turin Polytechnic.

From 1991: Tutor for Degree's and Master's thesis in Hydraulics, Hydrology, Hydraulics Constructions and Meteo-Hydrology, Marine Meteorology and Oceanography at Turin Polytechnic.

From 1992: Lecturer at the specialisation course in “Defence of the soil and protection of the environment”, organised by Turin Polytechnic.

From 1995: Assistant Professor (Lecturer B) in Hydrology for Civil Engineering and Environmental and Territorial Engineering at Turin Polytechnic.

From 2001: Visiting Professor in “TP Mer”- Marine Engineering, SOCRATES/ERASMUS Program, at Institut des Sciences de l'Ingenieur de Toulon et du Var - University of Toulon and Var – France.

From 2002: Assistant Professor (Lecturer B) in River Engineering for Civil Engineering and Environmental and Territorial Engineering at Turin Polytechnic.

From 2002: Member of the Doctoral School in Hydraulic Engineering of the Turin Polytechnic.

From 2003: Assistant Professor with tenure (Lecturer A) in Hydrology for Civil Engineering at Turin Polytechnic.

From 2003: Visiting Professor in “Marine Meteorology” for the Marine Engineering at Institut des Sciences de l'Ingenieur de Toulon et du Var - University of Toulon and Var (France).

From 2003: Tutor Master thesis at Université du Sud Toulon-Var (FR)

From 2004: Adjunct Professor (Senior Lecturer B) in Hydrology and Meteorology for Civil Engineering at Turin Polytechnic.

From 2008: Visiting Professor in “Applied Meteorology for the Sport” for the Faculty of Physical Education and Sport Sciences, Coaching Specialisation Degree – Turin University

From 2010: Adjunct Professor with tenure (Senior Lecturer A) in Water Supply & Wastewater Engineering at Turin Polytechnic.

From 2011: Visiting Professor in “Meteorology and Oceanography” for PhD course in “Marine Engineering” at Escola Politecnica – Universidade de Sao Paulo (Brazil)

From 2011: Tutor MSc and PhD thesis at San Paolo University (BR)

From 2013: Adjunct Professor with tenure (Senior Lecturer A) in Meteo-Hydrology Risk Assessment and Weather Risk Management at Turin Polytechnic and Turin University

From 1996: Tutor of BEng and BSc Thesis student (9 students), MEng and MSc Thesis student (30 students) and PhD student (2 student in cooperation with the University of Toulon and 1 student in Turin Politechnic)

Computer's knowledges (very good):

System: Windows 10, UNIX;

Language: Fortran, MATLAB; R; Python

Software: Office; MATLAB; R; Internet softwares; Navigation Software: MaxSea;

Mathematical Models: RAMS (Atmospheric model), MIKE 21 (Hydrological and Marine model), RayMan (Bio-Meteorological Model).

Research:

Research in Hydrology, Marine Engineering, Marine Navigation, Meteorology, Oceanography and Meteorology Applied to the Sport. More than 100 publications in National and International Journals, in National and International Conference included the Thesis and the Research Reports (see https://iris.polito.it/cris/rp/rp04742?sort_byall=2&orderall=DESC&open=all#.XCTo8_ZFzD4 or https://www.researchgate.net/profile/Alessandro_Pezzoli2).

Language:

Italian: Mother tongue.

English: Excellent.

French: Excellent.

References:

- Prof. dr. Paolo Alfredini, Escola Politecnica – Universidade de Sao Paulo, Av. Prof. Lúcio Martins Rodrigues, 120 - Cidade Universitária, CEP 05508-900 São Paulo –SP, tel.: (55) (11) 3039-3161/3162, 30915735, 30915358, 3091-5529, 96855581, e-mail: alfredin@usp.br
- Prof. dr. Jacques Piazzola, Institut Méditerranéen d’Océanologie - SeaTech, Université de Toulon, Av. de l’Université, 86130 LA GARDE (F), tel: +33(0)494142082, e-mail : piazzola@univ-tln.fr
- Prof. dr. Carlo Salone, Turin University, Dipartimento Interateneo di Scienze, Progetto e Politiche del Territorio, Viale Mattioli 39 – 10125 Torino (ITALY), tel: 00390110907446, e-mail: carlo.salone@unito.it