

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- Dates (from – to) 2016 - 2018
 - Name and address of employer Ministry of Research Education and University, Viale Trastevere, Roma - Italy
 - Type of business or sector Scientific evaluation of professors (ASN)
 - Occupation or position held President of the AN commission for sector 09D2
 - Main activities and responsibilities Evaluation of profiles of candidates to professorships at national level
- Dates (from – to) 2013 - 2019
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Rectorate
 - Occupation or position held Rector of the University of Trieste
 - Main activities and responsibilities Legal representation and management of the University of Trieste
- Dates (from – to) 2011 -
 - Name and address of employer DECHEMA, Frankfurt, Germany
 - Type of business or sector Member of the EU working party on thermodynamics
 - Occupation or position held Member of the working party of the European federation of chemical engineering on thermodynamics and transport properties
 - Main activities and responsibilities Coordination of scientific activities
- Dates (from – to) 2002 -
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering, then Department of Engineering and Architecture
 - Occupation or position held Full Professor of Chemical Engineering
 - Main activities and responsibilities Coordinator of the MOSE (Molecular Simulation Engineering) laboratory of the University of Trieste
- Dates (from – to) 2009 - 2013
 - Name and address of employer UNEP / MAP- MedPol 48, Vassileos Konstantinou Ave. 11635 Athens - Greece
 - Type of business or sector UN agency
 - Occupation or position held Consultant on PRTR implementation
 - Main activities and responsibilities Scientific and technical responsibility of PRTR project implementation in developing countries.

- Dates (from – to) 2006 - 2013
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector PhD Schools
 - Occupation or position held Director of the PhD School of Nanotechnology of the University of Trieste
 - Main activities and responsibilities Member of the teachers' board and, as the school director, coordination of the teaching and research activities of its PhD students

- Dates (from – to) 2010 - 2012
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held Director of the Department of Industrial Engineering and Information Technology (DI3)
 - Main activities and responsibilities Coordination of research activities in industrial engineering, materials engineering and ICT

- Dates (from – to) 2010 - 2012
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Administration and scientific coordination
 - Occupation or position held President of the 'Council of the scientific structures' of the University of Trieste (CSS)
 - Main activities and responsibilities Coordination of research activities and science administration for the University

- Dates (from – to) 1998 - 2011
 - Name and address of employer ICS – UNIDO, Area Science Park, Padriciano 99, 34012 Trieste - Italy
 - Type of business or sector UN agency
 - Occupation or position held Consultant on process simulation for sustainable industrial development
 - Main activities and responsibilities Training and coordination of activities in the area of sustainable industrial development in developing countries. Project leader of PRTR implementation.

- Dates (from – to) 2009 - 2010
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held Director of the Department of Materials and Natural Resources (DMRN)
 - Main activities and responsibilities Coordination of research activities in process engineering, materials engineering and environment

- Dates (from – to) 2006 - 2009
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held Director of the Department of Chemical, Environmental and Raw Materials Engineering (DICAMP)
 - Main activities and responsibilities Coordination of research activities in process engineering, material engineering and environment

- Dates (from – to) 2005 - 2008
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Industrial Liaison Office (ILO)
 - Occupation or position held Member of the scientific committee of Innovaction the Fair of Innovation, put in charge of the project by an official Rector's act
 - Main activities and responsibilities Member of the scientific committee for Innovaction fair and coordination of the participation of the University to the fair.

- Dates (from – to) 1993 - 2006
 - Name and address of employer Università di Padova, via 8 Febbraio, 2 - 35122 Padova - Italia
 - Type of business or sector Faculty of Engineering

- Occupation or position held Member of the teachers' board
 - Main activities and responsibilities Member of the teachers' board of the PhD in Chemical Engineering, organized by the Universities of Trieste and Padua. Coordination of PhD projects.
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- Dates (from – to) 2004
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held President evaluation committee of CIVR Sector 09 – Industrial Engineering and ICT
 - Main activities and responsibilities Selection of research product to be presented for the national university evaluation on Sector 09
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- Dates (from – to) 1998 - 2003
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Rectorate
 - Occupation or position held Rector's delegate for the digitalization of the University administration offices
 - Main activities and responsibilities Coordination of ICT projects: year 2000, Euro, ERP SAP implementation, SAS data warehouse, students ID and e-mail system, directory service, faculty logistics and students data base
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- Dates (from – to) 1992 -2002
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held Associate Professor of Chemical Engineering
 - Main activities and responsibilities Research and teaching activities in Chemical Engineering
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- Dates (from – to) 1983 - 1992
 - Name and address of employer University of Trieste, Piazzale Europa 1, 34127 Trieste - Italy
 - Type of business or sector Faculty of Engineering
 - Occupation or position held Assistant Professor of Chemical Engineering
 - Main activities and responsibilities Research and teaching activities in Chemical Engineering

EDUCATION AND TRAINING

- Dates (from – to) 2002
 - Name and type of organisation providing education and training Italian Ministry of University
 - Principal subjects/occupational skills covered Chemical Engineering Principles
 - Title of qualification awarded Full Professor
 - Level in national classification
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- Dates (from – to) 1992
 - Name and type of organisation providing education and training Italian Ministry of University
 - Principal subjects/occupational skills covered Chemical Engineering Principles
 - Title of qualification awarded Associate Professor
 - Level in national classification
-
- Dates (from – to) 1983
 - Name and type of organisation providing education and training Italian Ministry of University
 - Principal subjects/occupational skills covered Chemical Engineering Principles

- Title of qualification awarded Assistant Professor
- Level in national classification
- Dates (from – to) 1981 - 1982
- Name and type of organisation providing education and training Technical University of Denmark, Lyngby
- Principal subjects/occupational skills covered Chemical Engineering Principles
- Title of qualification awarded Researcher
- Level in national classification
- Dates (from – to) 1980 - 1981
- Name and type of organisation providing education and training Italian Ministry of Defense
- Principal subjects/occupational skills covered Military service as an officer of Alpine infantry
- Title of qualification awarded Lieutenant, then Captain
- Level in national classification
- Dates (from – to) 1974 - 1979
- Name and type of organisation providing education and training University of Trieste, Faculty of Engineering
- Principal subjects/occupational skills covered Chemical Engineering
- Title of qualification awarded MSc in Chemical Engineering
- Level in national classification
- Dates (from – to) 1974
- Name and type of organisation providing education and training Liceo Scientifico G. Oberdan – Trieste, Italy
- Principal subjects/occupational skills covered Scientific curriculum
- Title of qualification awarded High school graduation
- Level in national classification

PERSONAL SKILLS AND COMPETENCES.

Mother tongue(s) **ITALIAN**

Other language(s) **ENGLISH, SPANISH, FRENCH**

Self-assessment

European level (*)

English

Spanish

French

Understanding

Listening

Reading

Speaking

Spoken interaction

Spoken production

Writing

C2

C2

C2

C2

C2

B1

B2

A2

A2

A1

A1

A1

A1

A1

A1

(*) [*Common European Framework of Reference for Languages*](#)

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions

I GAINED EXCELLENT MANAGING SKILLS DURING THE EXPERIENCES IN THE MANAGEMENT OF RESEARCH GROUPS, THE MILITARY SERVICE, DIRECTOR OF THE DEPARTMENT AND PHD SCHOOLS AND ABOVE ALL IN THE MANAGEMENT OF THE UNIVERSITY OF TRIESTE FOR 5 YEARS. THE SAME EXPERIENCES ALLOWED ME TO GAIN RELATIONAL SKILLS AND WORKGROUP CAPACITY. IN MORE THAN 15 YEARS OF EXPERIENCE

where communication is important and situations where teamwork is essential (for example culture and sports), etc.

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

TECHNICAL SKILLS AND COMPETENCES

With specific kinds of equipment, machinery, etc.

WORKING WITH EU ORGANIZATIONS SPECIFICALLY FOR DEVELOPING AND EMERGING COUNTRIES I GOT SKILLS IN DEALING WITH MULTI LANGUAGE AND MULTI ETHNIC GROUPS.

IN MOST OF THE ACTIVITIES CARRIED OUT DURING MY PROFESSION I HAD TO LEAD, ORGANIZE AND MANAGE GROUP ACTIVITIES. DURING THE MILITARY SERVICE I HAD THE RESPONSIBILITY OF SOLDIERS IN OUTDOOR ACTIVITIES IN THE ALPS, IN SPORT ACTIVITY I WAS TRAINER AND PROFESSIONAL PLAYER AND I ALSO WAS INSTRUCTOR OF MOUNTAINEERING, LEADING GROUPS OF PEOPLE IN THE MOUNTAINS. I WAS RESPONSIBLE OF ALPINE RESCUE TEAM IN FRIULI REGION IN ITALY, THUS MANAGING THE RESCUE ACTIONS. AT THE UNIVERSITY, I MANAGED RESEARCH PROJECTS AND COORDINATED RESEARCH ACTIVITIES.

MY RESEARCH ACTIVITY IS CARRIED OUT AT THE 'DEPARTMENT OF ENGINEERING AND ARCHITECTURE OF THE UNIVERSITY OF TRIESTE. THE MAIN RESEARCH ACTIVITIES ARE FOCUSED ON MULTISCALE MODELING FOR MANAGING THE COMPLEXITY OF PROCESS – PRODUCT DESIGN, SUSTAINABLE PROCESS DESIGN AND ANALYSIS, THEORY, MODELING AND SIMULATION OF NANOSTRUCTURED MATERIALS, DRUG DESIGN AND DESIGN OF CONTROLLED RELEASE PROCESSES. OTHER FIELD OF INTEREST IS TRANSPORT AND THERMODYNAMIC PROPERTY, THEIR EXPERIMENTAL DETERMINATION, CORRELATION AND PREDICTION. IN THIS FIELD, I HAVE DONE EXPERIMENTAL WORK IN THE DETERMINATION OF PHASE EQUILIBRIA (VAPOR - LIQUID, LIQUID - LIQUID AND GAS -LIQUID) DATA, CORRELATION AND PREDICTION OF EXPERIMENTAL DATA BY MEANS OF DIFFERENT MODELS (EXCESS GIBBS ENERGY MODELS AND EQUATIONS OF STATE), APPLICATION OF THE MODELS TO THE SIMULATION OF CHEMICAL PROCESSES (STEADY STATE AND DYNAMIC PROCESSES).

THE RESEARCH ACTIVITY CAN BE SUMMARIZED IN THE FOLLOWING AREAS:

1. EXPERIMENTAL DETERMINATIONS
 - a. EXPERIMENTAL DETERMINATION OF PHASE EQUILIBRIUM
 - b. DATA COLLECTION
 - c. EXPERIMENTAL DETERMINATION OF TRANSPORT PROPERTIES
2. MULTISCALE MOLECULAR MODELING
 - a. THERMO PHYSICAL PROPERTIES FOR REFRIGERANTS AND ORGANICS
 - b. THERMO PHYSICAL PROPERTIES FOR POLYMERS AND POLYMER SYSTEMS INCLUDING BLENDS
 - c. TRANSPORT PROPERTIES FOR POLYMERS
 - d. NANOTECHNOLOGY AND NANOCOMPOSITES
 - e. CHEMICAL REACTION ENGINEERING
 - f. MOLECULAR MODELING FOR BIOLOGICAL SYSTEMS
3. CHEMICAL ENGINEERING THERMODYNAMICS
 - a. EXCESS GIBBS ENERGY MODELS DEVELOPMENT
 - b. EQUATIONS OF STATE DEVELOPMENT
 - c. THERMODYNAMICS OF POLYMER SYSTEMS AND GELS
4. PROCESS ENGINEERING
 - a. TRADITIONAL PROCESSES
 - b. NON TRADITIONAL PROCESSES

IN COMPUTER SCIENCE, MY MAIN RESEARCH ACTIVITY IS IN THE DATA BASE AND INTERNET FIELDS, WHERE I FOCUSED ON THE DIFFERENT ASPECTS AND POSSIBILITIES OF PUBLISHING DATA BASE INFORMATION IN THE WWW. IN THIS FIELD, I PERFORMED DESIGN AND DEVELOPMENT OF DATA BASE SYSTEMS, WITH PARTICULAR ATTENTION TO DATA BASE OF PHYSICAL PROPERTIES, TOXICOLOGICAL DATA AND POLLUTANT RELEASES.

IN THE AREA OF NANOMATERIALS I WAS THE LOCAL LEADER OF SEVERAL EU FP6, FP7 AND H2020 PROJECTS DEALING WITH MODELING AND SIMULATION. I WAS SCIENTIFIC CONSULTANT OF ICS - UNIDO WITHIN THE SUBPROGRAM 'PROCESS SIMULATION' FROM 1998 TO 2011 AND OF UNEP FOR THE IMPLEMENTATION OF PRTR IN DIFFERENT COUNTRIES.

I AM IUPAC FELLOWS FROM 2003. I AM MEMBER OF THE EUROPEAN WORKING PARTY OF THERMODYNAMICS AND TRANSPORT PROPERTIES.

COMPUTER SKILLS AND

FTN JAVA, C#, VISUAL BASIC PROGRAMMER. DATA BASE DEVELOPER. WINDOWS SYSTEM ENGINEER.

COMPETENCES	ADVANCED USER OF PROCESS SIMULATION AND MOLECULAR SIMULATION SOFTWARE. DATA BASE ADMINISTRATOR. COMPUTER NETWORK DESIGN AND COMPUTER SYSTEM ARCHITECTURES DESIGN. DESIGN AND DEVELOPMENT OF APPLICATIONS AND DATA BASES
ARTISTIC SKILLS AND COMPETENCES <i>Music, writing, design, etc.</i>	I WAS A MEMBER OF A MUSICAL GROUP OF CLASSICAL AND FOLK MUSIC, WHERE I WAS PLAYING STRING INSTRUMENTS.
OTHER SKILLS AND COMPETENCES <i>Competences not mentioned above.</i>	SPORTS PERFORMED: VOLLEYBALL, MOTORCYCLING, TENNIS, CLIMBING SKI, BASKET, ATHLETIC. I WAS MOUNTAINEERING AND SKI INSTRUCTOR FROM 1985 TO 2005. I PARTICIPATED TO DIFFERENT MOUNTAINEERING EXTRA EUROPEAN EXPEDITIONS IN THE EIGHTIES. I WAS A MEMBER OF THE NATIONAL ALPINE RESCUE TEAM FROM 1982 TO 2000. I AM ACADEMIC MEMBER OF THE ITALIAN ALPINE CLUB.
DRIVING LICENSE	LICENSE B (CAR) ITALIAN MOUNTAINEERING INSTRUCTOR ITALIAN SKI-TOURING INSTRUCTOR
AWARDS & MEMBERSHIPS	I CURRENTLY HOLD THE FOLLOWING POSITIONS, AMONG OTHERS: MEMBER OF THE EFCE WORKING PARTY ON THERMODYNAMICS AND TRANSPORT PROPERTIES, IUPAC FELLOWS, MEMBER OF THE AIChE, MEMBER OF GRICU AND AIDIC. I RECEIVED THE ITALY MEETS ASIA SCIENCE AWARD IN 2015 AND THE CHINESE ACADEMY OF SCIENCE PIFI AWARD IN 2020.
ADDITIONAL INFORMATION	I PUBLISHED MORE THAN 230 PEER REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS AND I MADE MORE THAN 200 CONFERENCE PRESENTATIONS AS INVITED PLENARY, KEYNOTE, ORAL OR POSTER PRESENTER. I HAVE ALSO GIVEN INVITED LECTURES SEMINARS AT NUMEROUS COMPANIES AND ACADEMIC INSTITUTIONS AND ORGANIZED SEVERAL WORKSHOPS ON TOPICS RELATED TO PROCESS ENGINEERING, NANOTECHNOLOGY AND MULTISCALE MODELING. I SUPERVISED DOZENS OF MASTER THESIS IN CHEMICAL ENGINEERING AND COMPUTER TECHNOLOGY AS WELL AS PH.D. PROJECTS AT THE UNIVERSITY OF PADOVA AND AT THE UNIVERSITY OF TRIESTE. IN THE AREA OF NANOMATERIALS I WAS THE LOCAL LEADER OF SEVERAL EU FP6 AND FP7 AND H2020 PROJECTS DEALING WITH MODELING AND SIMULATION. I WAS SCIENTIFIC CONSULTANT OF ICS - UNIDO WITHIN THE SUBPROGRAM 'PROCESS SIMULATION' FROM 1999 TO 2011 AND OF UNEP FOR THE IMPLEMENTATION OF PRTR IN DIFFERENT COUNTRIES FROM 2005 TO 2013. MORE INFORMATION IN WWW.MOLBNL.IT . H INDEX IN 2021 IS 50; NUMBER OF CITATIONS 8639; I10 INDEX 153; TOTAL NUMBER OF PAPERS 570 (GOOGLE SCHOLAR).
ANNEXES	LISTS OF PUBLICATIONS AND RESEARCH PROJECTS ARE AVAILABLE AT WWW.MOLBNL.IT