

CURRICULUM VITAE (EUROPASS FORMAT)

PERSONAL INFORMATION

Name: Andrea Pizzi
Nationality: Italian
Date of Birth: 1987

WORK EXPERIENCE

04/2025 – Present

Associate Professor

Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”
Politecnico di Milano

- Research in crystal engineering of biologically relevant molecules and functional molecular materials
- Study of molecular recognition phenomena in solid and liquid states

01/2021 – 03/2025

Assistant Professor (RTD)

Politecnico di Milano

- Research on crystal engineering and supramolecular chemistry applied to biomolecules and materials

2016 – 2021

Research Fellow

Politecnico di Milano

- Development of fluorinated nanocarriers for drug delivery
- Structural characterization of extracellular vesicles and peptide-based systems
- Research within international and ERC-funded projects (e.g. MINIRES, FOLDHALO)

05/2012 – 11/2012

Quality Assurance Assistant

Pharmaceutical Industry

- Batch product review
- Handling customer complaints and investigations
- Preparation of technical documentation

EDUCATION AND TRAINING

2017

PhD in Industrial Chemistry and Chemical Engineering

Politecnico di Milano

- Thesis: *Halogen Bonding as a Supramolecular Tool to Control Protein and Peptide Self-Assembly*

2011

Master's Degree in Industrial Chemistry and Management

University of Milan

- Grade: 110/110 cum laude

TEACHING EXPERIENCE

- Lecturer and co-lecturer in undergraduate and graduate courses in Chemistry
- Courses include: Foundations of Chemistry, General Chemistry, Products from Renewable Resources
- Teaching activities across multiple engineering degree programs (Chemical Engineering, Mechanical Engineering, Aerospace Engineering, Energy Engineering)
- Extensive experience in laboratory teaching and student support

SUPERVISION EXPERIENCE

- Supervisor of postdoctoral researchers
- Co-supervisor of multiple PhD theses in Industrial Chemistry and Chemical Engineering
- Co-supervisor of Master's theses in Chemical Engineering, Biomedical Engineering, and Materials Science
- Ongoing supervision of PhD candidates and research fellows

RESEARCH ACTIVITIES AND FUNDING

- Principal Investigator of national research projects (Funded by MUR): GEMSTONE – Green Economy for Saving and Trapping iODiNE: In-hospital remediation of biological fluids for iodine circular economy –2022SK7JPA.
- Responsible of Research Units in national projects (Funded by MUR): Discerning dynamic SUMo-related liquid-liquid phase separation: a sUPramolecular Approach (SUM-UP) – P20225HP23.
- Participation in ERC-funded projects (Proof of Concept Grant)
- Continuous access to synchrotron facilities through competitive proposals

SCIENTIFIC OUTPUT

- Author of 50+ publications in international peer-reviewed journals
- h-index: 20
- Total citations: 1000+

CONFERENCE PARTICIPATION

- Invited and selected speaker at international conferences
- Numerous oral and poster presentations in supramolecular chemistry and crystallography

COLLABORATIONS

Active collaborations with international research institutions across Europe, USA, and the Middle East in the fields of chemistry, materials science, and nanotechnology

REVIEWING ACTIVITY

Reviewer for multiple high-impact scientific journals, including:

- Angewandte Chemie
- Chemical Communications
- Chemistry – A European Journal
- Journal of Organic Chemistry

TECHNICAL AND RESEARCH SKILLS

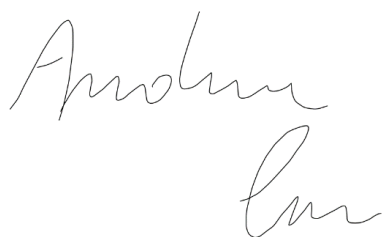
- X-ray diffraction (single crystal, powder, SAXS)
- Electron microscopy (TEM, SEM)
- Spectroscopy (NMR, FT-IR, UV-Vis, Circular Dichroism)
- Chromatography (GC, HPLC)
- Thermal analysis (DSC, TGA)
- Dynamic Light Scattering (DLS)
- Rheology and electrospinning

PROFILE

Researcher in supramolecular chemistry and crystal engineering with expertise in biomolecular self-assembly, noncovalent interactions, and functional materials.

Strong background in interdisciplinary research combining chemistry, materials science, and nanotechnology, with extensive experience in teaching, supervision, and international collaboration.

Milan, 15/04/2026

A handwritten signature in black ink, appearing to read "Andrea", followed by a stylized flourish or second signature element below it.