

# Arianna Bertolani, PhD

Nata a Patti (ME) il 18/11/1986

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## Education

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- May 2017 **Master of Science in Healthcare Management**  
SDA Bocconi, School of Management, Milan, Italia
- March 2015 **PhD in Chemical Engineering and Industrial Chemistry**  
Polytechnic of Milan, Milan, Italia  
Thesis title: "*Interactions between halogenated compounds and biomolecules: implications in medicine and nanotechnology*"  
Final Score: with merit
- October 2011 **Master of Science in Pharmaceutical Biotechnology**  
University of Milan, Milan, Italia  
Thesis title: "*Study of innovative methodologies for the enzymatic resolution of flurbiprofen using a flow microreactor*"  
Final Score: 110/110 cum laude
- October 2008 **Bachelor degree in Biotechnology**  
University of Messina, Messina, Italia  
Thesis title: "*Modulation of the gene expression by plant polyphenols on endothelial cells*"  
Final Score: 110/110

## Work Experiences

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- Jan. 2017 – to date **Pharmaceutical Observatory, CERGAS - SDA Bocconi, Milan**  
Junior Research Fellow
- Research activity sponsored by multinational companies leader in the international pharmaceutical market;
  - Evaluation of the policy impact in the pharmaceutical field in Italy and in regional territories;
  - Analysis of the pharmaceutical spending in Italy (IMS data, AIFA data, Federfarma data);
  - Analysis of the company budgets and AIFA monitoring on pharmaceutical spending;
  - Analysis of the impact of patent term expiration on the Italian pharmaceutical market;
  - Cost analysis and budget impact analysis.
- Jan. 2015 – Jan. 2016 **Polytechnic of Milan**  
Post Doc (Research and Development)
- Development of innovative materials with possible biomedical applications and research activities in the field of neurodegenerative diseases;
  - Coordination of research projects (European Research Council funding);
  - Supervision and training of students during their master and PhD thesis.
- Oct. 2012 – Feb. 2016 **Polytechnic of Milan**  
Teaching and Laboratory Assistant
- Teaching and laboratory assistant for two chemistry courses of the degree in electronic engineering and materials engineering.

## Languages

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**Italian:** Native speaker  
**English:** Fluent (TOEFL Certification - B2)  
**French:** Good

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## Other information

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**IT skills:** Excellent knowledge of MS Office, statistical and scientific softwares (Origin, Mercury, PyMol, Stata), main databases for literature search and softwares for surveys creation (Qualtrics).

**Post-graduate experiences:**

- Mar – Agu 2013: Research activity at the VTT – Technical Research Centre of Finland (Helsinki);
- June 2017: Summer school in “Modern Methods in Biostatistics and Epidemiology” (Cison di Valmarino, Italy); courses: Linear regression for medical research; Research Methods in Health Biostatistics; Survival analysis; Competing Risks for Survival Analysis; Basics of Stata.

**Awards:** winner of the “Young Researcher Prize” by Rotary Club (21° ISFC, Como, 2015).

**Organizational skills:** Excellent time scheduling skills and respect of deadlines, high operational flexibility, result-oriented, precision in carrying out the assigned tasks, good attitude for dealing with unexpected problems.

**Main publications:**

- *Patients’ Associations and HTA for medicines: actual and future role in Italy. Patients’ Associations and HTA for medicines in Italy*, GRHTA, 2018 – in submission;
- *The hospitalization burden of influenza: just the tip of the iceberg? Estimation of the hidden burden of influenza-related inpatient admissions in Italy*, GRHTA, 2018 – in submission;
- *Politiche del farmaco ed impatto sulla spesa: gli effetti di quindici anni di decentramento nel SSN, con un focus sull’adozione di forme alternative di distribuzione dei farmaci*, Rapporto OASI 2017;
- *La spesa sanitaria: composizione ed evoluzione*, Rapporto OASI 2017;
- *Halogen bonding modulates hydrogel formation from Fmoc amino acids*. CrystEngComm, 19, 1870-1874 (2017);
- *Crystal structure of the DFNKF segment of human calcitonin unveils aromatic interactions between phenylalanines*. Chemistry - A European Journal, 23, 2051-2058 (2017);
- *Supramolecular amplification of amyloid self-assembly by iodination*, Nature Communications, 6:7574 (2015);
- *An efficient method for the lipase-catalysed resolution and in-line purification of racemic flurbiprofen in a continuous-flow reactor*, Journal of Molecular Catalysis B: Enzymatic, 84, 78-82 (2012).

**Participation to national and international congresses:**

- Demonstrating the role of halogen- $\pi$  interactions in the self-assembly of bis-phenol pollutants, 2nd ICSU/IUPAC Workshop on Crystal Engineering, 2015;
- Crystal structure of the iodinated variant of the amyloidogenic core sequence DFNKF, 2nd ICSU/IUPAC Workshop on Crystal Engineering, 2015;
- Playing with halogen bonding to drive intra- and inter-molecular protein interactions, 2nd ICSU/IUPAC Workshop on Crystal Engineering, 2015;
- Haloprfluoroarenes bind to the peptide bond model N-methylacetamide through halogen bonds, 21st International Symposium on Fluorine Chemistry & 6th International Symposium on Fluorous Technologies, 2015;
- From fluorine to iodine: playing with halogen atoms to drive intra- and inter-molecular protein interactions, 21st International Symposium on Fluorine Chemistry & 6th International Symposium on Fluorous Technologies 2015;
- Cooperation of Hydrogen and Halogen Bonding in the Molecular Interaction Pattern of Polyhalogenated Pollutants, 1° International Symposium on Halogen Bonding, 2014;
- Folding with halogen bonding (FOLDHALO), 1° International Symposium on Halogen Bonding, 2014;

- Single crystal X-ray structure of an amyloidogenic peptide, 1° International Symposium on Halogen Bonding (ISXB1), 2014;
- Halogenation of Amyloidogenic Peptides Promote Efficient Fibrils and Hydrogels Formation, 33° European Peptide Symposium, 2014;
- Single crystal X-ray structure of an amyloidogenic peptide, 1° Peptide Materials for Biomedicine and Nanotechnology, 2013;
- Halogen bonding: a key interaction in the molecular recognition processes of halocarbons, 13° Sigma Aldrich Young Chemists Symposium, 2012;
- Intermolecular recognition features of bioactive polyhalogenated compounds, XXXIV National Congress of Organic Chemistry, 2012;
- Enzymatic (R,S)-flurbiprofen resolution using a continuous flow reactor, 10th International Symposium on Biocatalysis and Biotransformations, 2011.