




PERSONAL INFORMATION

Lorenzo Barbara



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Sex Male | Date of birth 03/08/1992 | Nationality Italian

EDUCATION

**2020 - present** **PhD student** at University of Palermo – Chemical, Environmental, Biomedical, Hydraulic and Materials Engineering  
 Member of the H2020 EU Project WiderUptake team.  
 Working on sewage sludge reduction e recovery.  
**2015 – 2017** **Master's degree in Industrial Biotechnology (LM-8)** at University of Palermo.  
**2011 - 2014** **Bachelor's degree in Biology (L-13)**, at University of Palermo.

WORK EXPERIENCE

**03/2019 – 03/2020** **Voluntary Service** at “Unione Italiana dei Ciechi e deli Ipovedenti”, assisting blind or visually impaired people.  
**12/2018 – 06/2019** **Science teacher** at secondary school.  
**05/2018 – 05/2019** **Research collaborator** at University of Palermo – Department of Biological, Chemical and Pharmaceutical Sciences and Technologies  
 - Microbiological research on innovative antibacterial  
 - Advanced research on nanomaterials chemistry (metallic nanoparticles, nanosponges, cyclodextrin).  
**04/2015 – 09/2015** **Post-Bachelor's degree training** at Trapani Hospital – Department of Clinical Phatology  
 - Use of techniques and instrumentation for clinical analysis in microbiology, molecular biology, hematology, clinical chemistry and immunology

PERSONAL SKILLS

Mother tongue	Italian				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	
	English	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

## Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Levels: Basic user - Independent user - Proficient user  
 Digital competences - Self-assessment grid

- Excellent command Microsoft Office tools (**Excel, Word and PowerPoint**), acquired by self-taught.
- Excellent command of audio sequencer (**Steinberg Cubase 5**), and related audio acquisition supports, acquired by self-taught.
- Good command of **CAD (AutoCAD)** software, acquired during the university studies.
- Good command of graphic and video design software (**Adobe PhotoShop, Adobe Premiere**) acquired by self-taught.

Driving licence B

## ADDITIONAL INFORMATION

## Publications

- R. M. Fontana, N. Milano, L. Barbara, A. Di Vincenzo, G. Gallo, P. Lo Meo; Cyclodextrin-Calixarene Nanosponges as Potential Platforms for pH-Dependent Delivery of Tetracycline; *ChemistrySelect*, **2019**, 4, 9743. DOI: <https://doi.org/10.1002/slct.201902373>.
- G. Mannina, L. Badalucco, L. Barbara, A. Cosenza, D. Di Trapani, G. Gallo, V. A. Laudicina, G. Marino, S. M. Muscarella, D. Presti, H. Helness; Enhancing a Transition to a Circular Economy in the Water Sector: The EU Project WIDER UPTAKE, *Water*, **2021**, 13(7), 946. DOI: <https://doi.org/10.3390/w13070946>.

## Conferences

- XXXII SIMGBM Congress, 2017  
 Poster presentation "Cyclodextrin-based nano-devices for improved antibiotic activity", R. M. Fontana, L. Barbara, N. Milano, P. Lo Meo, G. Gallo.
- 5° Meeting "Biotecnologie: Ricerca di base, interdisciplinare e traslazionale in ambito Biomedico", 2018  
 Oral presentation "Synergistic effect with antibiotics and inhibition of bacterial biofilm formation by polyaminocyclodextrin-silver nanoparticles", R. M. Fontana, L. Barbara, N. Milano, G. Gallo, P. Lo Meo.  
 Poster presentation "Antimicrobial efficacy of cyclodextrin-based nano-devices capable of controlled antibiotic release", R. M. Fontana, N. Milano, L. Barbara, G. Gallo, P. Lo Meo.
- Congresso Congiunto della Società Chimica Italiana – Sez. Sicilia e Calabria, 2019  
 Poster presentation "Attività sinergica di nanoparticelle di argento fotosintetizzate con antibiotici classici", P. Lo Meo, L. Barbara, R. M. Fontana, A. Di Vincenzo, M. Russo, G. Gallo.

## Personal data

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