

# ELNAZ BAVEL

## LANGUAGE

**Persian** (Mother tongue)

**English** (Professional Proficiency)  
C1 (IELTS certificate)

**Italian** A1

## WORKSHOP AND TRAINING

- Reaction kinetics in food science, Wageningen University, Netherland
- Food Safety, Noi Tech Park, Italy
- Training of HPLC, Noi Tech Park, Italy
- Scanning Electron Microscope (SEM), Empa, Switzerland
- Bacteriophage formulation & Antimicrobial testing, Empa, Switzerland
- Electrospinning device, Bu-ali Sian university, Iran

## EDUCATION

### **PhD Student in Food Engineering and Biotechnology (Current)**

Free University of Bozen-Bolzano (Unibz). Department of Agricultural, Environmental and Food Sciences, Noi tech park, Bolzano, Italy

### **MASTER IN NANOTECHNOLOGY ENGINEERING (2021 - 2024)**

Department of Basic and Applied science for engineering, Sapienza University, Rome, Italy

#### **Thesis**

Smart on-demand release of bacterial phage cocktail to treat *Pseudomonas aeruginosa* infections" under Supervision of Dr. Qun Ren at Empa

### **MASTER DEGREE IN ANALYTICAL CHEMISTRY (2016 - 2018)**

Department of chemistry, Bu-ali Sina university, Hamedan, Iran

#### **Thesis**

Removal and determination of some heavy metal ions using modified nanofibers" under Supervision of Dr Abbas Afkhami

### **BACHELOR DEGREE IN APPLIED CHEMISTRY (2011 - 2015)**

Department of chemistry, Payam Noor university, Esfahan, Iran

## PUBLICATION

Bio-Responsive Hydrogel for Targeted on-Demand Release of a Phage Cocktail for Treatment of *Pseudomonas aeruginosa* Infection, *Advanced Functional Materials*. DOI: [10.1002/adfm.202509360](https://doi.org/10.1002/adfm.202509360)

Removal and Preconcentration of Pb(II) Heavy Metal Ion from Water and Waste-Water Samples onto Poly (vinyl alcohol)/polyethyleneimine/Fe3O4 Microfibers Nanocomposite. *Journal of Polymers and the Environment*. DOI: [10.1007/s10924-019-01632-7](https://doi.org/10.1007/s10924-019-01632-7).

## WORK EXPERIENCE

### **Laboratory Technician (Food & Beverage Quality Control) (2019 - 2021)**

Meyardanesh Pars Company, Islamic Azad University, Esfahan, Iran  
<https://meyardanesh.com/>

### **Academic Tutor (2015 - 2019)**

Tutor of Chemistry, Biology, English for high school and bachelor students.

### **Internship (2015 - 3 MONTHS )**

Montazeri Power Plant, Esfahan, Iran  
<http://www.montazeri-ccpp.ir/en/>