

MANUKYAN ANNA

Larissa, Greece
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EDUCATION

- PhD student 2021-present
The laboratory of Plant and Environmental Biotechnology, University of Thessaly, Greece
Research topic: Assessing the toxicity of pesticides on natural soil and plant assemblages of AMF.
- Master of Science in Ecology, Monitoring and Management of Ecosystems 2018-2020
University of Bourgogne Franche-Comté, France
Thesis: Predicting the sensitivity of Daphnid communities to chemical stress with a Dynamic Energy Budget Individual-Based Model: The role of crowding-related interactions.
- Bachelor of Science in Biology 2014-2018
Yerevan State University (YSU), Armenia
Thesis: Investigation of α -amylase isolated from *Bacillus amyloliquefaciens* MDC 1974 strain as a starch containing food waste recycling tool

WORK EXPERIENCE

- Research Intern 03/2020-09/2020
The Ghent University Environmental Toxicology (GhEnToxLab), Belgium
Improving the existing DEB-IBM model for the further studies. Environmental modeling of the effects of single metals on the population and community level of daphnids, by taking into account the possible individual's interactions.
- Research Intern 03/2019-06/2019
Department of System-Ecotoxicology, UFZ, Germany
Studied the effect of the pyrethroid insecticide, synergically with other environmental stressors, on the metabolic changes of the test organisms. Responsible for the experiment, data collection and analysis.
- Microbiologist 03/2018-08/2018
Coca-Cola Hellenic Bottling Company, Armenia
Identifying and determining the quantity of food-borne microorganisms, analyzing and reporting on the chemistry of the products.
- Research Intern 2015-2017
Laboratory of Protein Technologies, Scientific and Production Center "Armbiotechnology" NAS RA, Armenia
Responsible for performing:
❖ molecular biology techniques (PCR, DNA, RNA and protein extraction and purification procedures, gel electrophoresis, cloning),
❖ microbiological techniques (preparation of cell cultures, antibiotic resistant testing, microscopy),

- ❖ analytical methods (titrations, chromatography, spectrophotometry)

SKILLS

- ❖ R Studio, QGIS, Julia, SQL, Microsoft Office products
- ❖ Languages: English (advanced), Russian (native), Armenian (native), French (beginner)

ADDITIONAL TRAINING

Pedagogical Traineeship 02/2018 - 03/2018
No 174 Basic School, Armenia
Teaching Biology in the middle school to acquire a “Qualification of a Teacher” together with a Bachelor’s degree.

Training Course on Ecological Services 07/2017
Department of Ecology and Nature Protection, YSU, Armenia
Competence in applying and evaluating ecological knowledge in relationship to technological and societal development.

Training Course on the Methods of Scientific Discovery: Host-Pathogen Interactions 07/2017
University of Massachusetts Medical School and Center of Excellence in Applied Biosciences, Armenia
Isolating *Bacillus thuringiensis* from the soil samples and culturing them. Identifying nematode-active *B. thuringiensis* using *Caenorhabditis elegans* toxicity assays.