

Anastasia Adamou

104 str. N° 5, Pano Polemidia-Limassol Cyprus

Email: Natasa.adamou@gmail.com

Mob:99-745465

EDUCATION

PhD in Environmental Biosciences and Technology

November 2018

Cyprus University of Technology, Limassol

Dissertation Title: Raman and FTIR micro-spectroscopic studies of bacterial-sulphide mineral interactions

Coursework: Applied Spectroscopy, Applied Technology and Environmental Sciences, Environmental Biochemistry, Advanced Environmental Biotechnology, Special Topics of Environmental Biosciences, Advanced Environmental Microbiology, Advanced Ecotoxicology, Computational Environmental Chemistry, Biochemistry and Biology.

Bachelor of Environmental Science and Technology

June 2014

Cyprus University of Technology, Limassol

Bsc Thesis: Isolation and characterization of microorganisms that break down oil alkanes.

Relevant coursework: Aquatic Chemistry, Environmental Biology-Microbiology, Hydrology, Water Quality Analysis, Environmental Physics, Toxicology, Renewable Energy Sources, Waste Management Engineering and Technologies, Coastal Zone Management, Environmental Biotechnology etc.

Kykkos Lyceum Paphos

June 2010

Certificate: 19_{5/12}/20

Directional Mathematics, Directional Chemistry, Directional Physics, Typing, Greek

RELEVANT EXPERIENCE

Cyprus University of Technology, Limassol

January-May 2019

Special Scientist-Lecturer

- Instrumental Analysis (Undergraduate level)

Cyprus University of Technology, Limassol

January 2018-May 2019

Special Scientist-Support courses to undergraduate students

- Aquatic chemistry
- Toxicology
- General and Inorganic chemistry
- Organic chemistry
- Environmental physics
- Hydrology
- Principles of engineering

Cyprus University of Technology, Limassol

September 2014-December 2018

Teaching Assistant

- Preparation for laboratory experiments
- Supervision and assistance to undergraduate and postgraduate students during experimental procedures
- Resolving queries about the cognitive subject of teaching

• Aquatic Chemistry-Undergraduate level	September-December 2018
• Water quality analysis-Undergraduate level	January-April 2018
• Biology-Undergraduate level	September-December 2017
• Instrumental Analysis-Undergraduate level	January-April 2017
• Advanced Environmental Biochemistry--Postgraduate Level	September-December 2016
• Special Topics in Environmental Biosciences -Postgraduate Level	September-December 2016
• Appl. Spectroscopic techniques in Environmental Biosc.-Postgraduate Level	September-December 2016
• Toxicology II-Undergraduate Level	January-April 2016
• Environmental biochemistry/microbiology-Postgraduate Level	November-December 2015
• Advanced environmental biochemistry--Postgraduate Level	September-December 2015
• Special Topics in Environmental Biosciences-Postgraduate Level	September-December 2015
• Biology/Biochemistry-Undergraduate level	January-April 2015
• Environmental biology and microbiology-Undergraduate level	September-December 2014

ADDITIONAL EXPERIENCE

Cyprus Centre for Environmental Research and Education (CYCERE), Limassol <i>Post-Doctoral Research Fellow</i>	June 2020-
P.TH Hadjigeorgiou Co. Ltd, Limassol <i>Personal Assistant to C.E.O</i> <i>Purchase Order Department Manager</i>	February-May 2020
• Pharmaceutical Industry	
Marine and Environmental Research Center (MER), Limassol <i>External Special Associate</i>	March-June 2019
• Sample preparation	
• Macrofauna sorting	
• Macrofauna basic taxonomy	
Cyprus University of Technology, Limassol <i>Special Research Fellow</i>	October-November 2016
• Creation of laboratory exercises	
Cyprus University of Technology, Limassol <i>External Special Associate</i>	May-July 2015
• Creation of postgraduate laboratory exercises	
Cyprus University of Technology, Limassol <i>External Special Associate</i>	October-December 2014
• Study of copper bio-extraction from chalcopyrite by FTIR spectroscopy	
Cyprus University of Technology, Limassol <i>Special Research Fellow</i>	June-July 2014
• Research project of Cyprus University of Technology with Hellenic Copper Mines Ltd	
• Bio-extraction of copper from Chalcopyrite	
• FTIR Spectroscopy	

CERTIFICATIONS & COURSES

• Open day activity event for the marine environment held in Cavo Greco, Cyprus-RECONNECT Project/Certificate	March 2019
• 1 st Symposium on harmful cyanobacteria in Cyprus/Certificate	March 2019

- 33rd annual Pan-Hellenic Conference on solid state Physics and Materials Science/Certificate Sept. 2018
Poster Session
- Raman and FTIR-microspectroscopy detection of Bornite, Chalcocite, and Covellite bacterial interactions
- Raman and FTIR imaging of Graphite and nanoparticles bacterial membrane interactions
- **Environmental Inspector** Certificate for Environmental Managements Systems ISO 14001:2015, TUV Austria, Auditor/Lead Auditor June 2017
- Phycomorph, 2nd Working Group Meeting/Certificate September 2016
- Atomic and Molecular Spectroscopy and Sample Preparation Seminar/Certificate May 2015
- Mineral wealth and growth potential: Modern perceptions/Certificate November 2014
- 1st Pan-Cyprian Scientific Conference: Environmental Review/Certificate May 2014

HONOURS & AWARDS

Publication in *Bioresource Technology Journal* was highlighted as a **Key Bioenergy article** in Renewable Energy Global Innovations. December, 2017 (<https://reginnovations.org/bioenergy/whole-ore-chalcocopyrite-bacteria-interactions-jarosite-biosynthesis-raman-ftir-micro-spectroscopies/>).

PUBLICATIONS

Adamou, A., Nicolaidis, A., & Varotsis, C. (2019). Bio-hydrometallurgy dynamics of copper sulfide-minerals probed by micro-FTIR mapping and Raman microspectroscopy. *Minerals Engineering*, 132, 39-47.

Adamou, A., Manos, G., Messios, N., Georgiou, L., Xydas, C., & Varotsis, C. (2016). Probing the whole ore chalcocopyrite–bacteria interactions and jarosite biosynthesis by Raman and FTIR microspectroscopies. *Bioresource technology*, 214, 852-855.

SPECIAL KNOWLEDGE AND COMPUTER USE

- Excellent handling of Microsoft Office tools
 - Microsoft Word
 - Microsoft PowerPoint
 - Microsoft Excel
- Knowledge and use of:
 - Origin Lab
 - Opus
 - Adobe Photoshop
 - SAP Program

LABORATORY EXPERIENCE

Experienced in operational knowledge of analytical instrumentation:

- FTIR Micro-spectroscopy
- UV-Vis Spectroscopy
- Fluorescence Spectroscopy
- High Pressure Liquid Chromatography (HPLC)
- Gas Chromatography (GC)
- Thin Liquid Chromatography (TLC)
- Molecular techniques (Cryopreservation and maintenance of microbial cultures, Preparation of growth medium for bacterial and fungal cultures, Bacterial and fungal inoculation, Extraction of extracellular polymeric substances-lipids-DNA and proteins from microbial cultures, DNA electrophoresis, SDS-PAGE electrophoresis etc.)

LANGUAGES

- Greek
- English: Advanced (GCSE, IGCSE)