

# GEORGIOS MAKAROGLOU

WORK ADDRESS: **Office K3.A10, Building K3, University campus**

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## Education

- 10/2018-Today **PhD Candidate, School of Chemical and Environmental Engineering, Technical University of Crete**
- Doctoral Thesis Title: *"Optimization of microalgae growth and separation processes for the production of high added value products"*
- 09/2013-07/2018 **Environmental Engineer Integrated Master Diploma, School of Chemical and Environmental Engineering, Technical University of Crete**
- Environmental Engineer Diploma (Grade: 7.85, VERY GOOD)
  - Thesis Title: *"Mitigation of soil salinity using biological soil amendments under greenhouse conditions"* (Grade: 10.0, EXCELLENT)

## Job Experience

- 12/2018 - Today **Researcher Environmental Engineer, School of Chemical and Environmental Engineering, Technical University of Crete**
- Project title: *"Bioconversion of CO<sub>2</sub> into High-added Value Bioproducts through Sustainable Microalgae Cultivation Processes, CO<sub>2</sub>-BioProducts"*
  - Funding: EYDE-ETAK, EPanEK (2014-2020)
- 07/2016-08/2016 **Environmental Engineer (Internship), Quality Control Department, PLASTIKA KRITIS S.A., Heraklion, Crete**
- Quality control of the produced products

## Teaching Experience

- 10/2020-12/2020 **Teaching** of laboratory and tutoring exercises in the course ENVE 555 "**Design of Environmental Plants and Environmental Impact Assessment II**", (Academic Scholarship), **School of Chemical and Environmental Engineering, Technical University of Crete**
- 03/2020-04/2020 **Teaching** of laboratory and tutoring exercises in the course ENVE 554 "**Design of Environmental Plants and Environmental Impact Assessment I**", (Academic Scholarship), **School of Chemical and Environmental Engineering, Technical University of Crete**
- 10/2019-12/2019 **Teaching** of laboratory and tutoring exercises in the course ENVE 555 "**Design of Environmental Plants and Environmental Impact Assessment II**", (Academic Scholarship), **School of Chemical and Environmental Engineering, Technical University of Crete**

## **Publications**

- 02/2021
- **G. Makaroglou**, H. Marakas, S. Fodelianakis, V. A. Axaopoulou, I. Koumi, N. Kalogerakis, P. Gikas, 2021, “*Optimization of biomass production from *Stichococcus* sp. biofilms coupled to wastewater treatment*”, *Biochemical Engineering Journal*. 169, 107964. <https://doi.org/10.1016/j.bej.2021.107964>

## **Conferences – Scientific Events**

- 15-16/11/2021
- **G. Makaroglou**, A. Pavlou, R. Kompogennitaki, G. Penloglou, P. Gikas, N. Kalogerakis, C. Kiparissides. “Optimization of *Stichococcus* sp. cultivation in lab- and PBR- scale for efficient CO<sub>2</sub> fixation and bio-products production”, 3<sup>rd</sup> Online International Conference on Environmental Sustainability and Climate Change, 15-16 November 2021
- 2021
- **G. Makaroglou**, P. Gikas, 2021. “*Water reclamation and reuse on the island of Crete, Greece*”, 6th IWA International Symposium on Water, Wastewater and Environment in Ancient Civilizations: Traditions and Cultures, Istanbul, Turkey, The Symposium is postponed due to COVID-19 (Accepted for Presentation)
- 13/12/2019
- **G. Makaroglou**, P. Gikas, 2019. “*Optimization of microalgae growth and separation processes for the production of high added value products*”, 2<sup>nd</sup> PhD Students’ Conference of the School of Chemical and Environmental Engineering, Technical University of Crete, Chania, 13 December 2019
- 24-25/06/2019
- **G. Makaroglou**, E. Syranidou, K. Pantelidaki, N. Kalogerakis, P. Gikas, 2019. “*Chemical mutation of *Stichococcus* sp. for the selection of strains with reduced chlorophyll content*”, 2nd International Conference ADAPTtoCLIMATE, Heraklion, Greece, 24-25 June 2019
- 09-13/04/2011
- Stavrou, N., **Makaroglou, G.**, Daliakopoulos, I.N., and Tsanis, I.K., 2018. “*Chlorophyll Response to Salinity Stress in Tomato Plants*”, *Geophysical Research Abstracts*, Vol. 20, EGU2017-16370-1, Vienna, Austria, 9–13 April 2018

## **Language Skills**

- **English** (Certificate of Proficiency in English (ECPE), Michigan University, 2016)

## **Computer Skills**

- Operating Systems: **Windows, Linux**
- Office suites: **MS Office, OpenOffice**
- Computing software: **SPSS, Minitab**
- Mathematical programming: **MATLAB, R**
- Programming languages: **FORTRAN, C**
- Designing software: **AutoCAD, SketchUp, OpenStudio**
- GIS software: **ArcGIS**
- Environmental software: **CORMIX**