

# CHANIOTAKI LEFKI

## **PERSONAL DETAILS**

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**Address:** Theodorou  
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**Date of birth:** 2 July 1996

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**Nationality:** Greek

## **EDUCATION**

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2019 – present: **University of Crete**  
Master in department of Material Science and Technology

2014 – 2019: **University of Crete**  
Bachelor in department of Materials Science and Technology

2014: General High School diploma (17.5)

## **WORK EXPERIENCE**

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### **July 2020- present**

#### **Master Thesis**

- FORTH, Institute of Electronic Structure and Laser, Dr. E.Stratakis group(Ultrafast Laser Micro and Nano Processing Laboratory).
- We continue the project of my thesis with title “4D printing of biomaterials scaffolds for tissue engineering”, but with some changes. We ordered a galvo in order to make laser structures more quickly and with no vibrations. To succeed that many changes in the set-up will be made. The final step will be to culture cell in our 3D printed scaffolds.

### **July 2018 – September 2019**

#### **Thesis**

- FORTH, Institute of Electronic Structure and Laser, Dr. E.Stratakis group(Ultrafast Laser Micro and Nano Processing Laboratory).
- We combined the Fused Filament Fabrication 3D printer and Ytterbium Picosecond Fiber Laser in order to build 3D scaffolds of biocompatible polymers (PLA, PET) with 3D ablation for tissue engineering applications. This worked with a software where at each layer of the scaffold (before the other layer is printed), ablation with laser was held. With this innovative combination we will manage to make 3D scaffolds with much better resolution.

### **June 2017- August 2017**

#### **Internship**

- FORTH, Institute of Electronic Structure and Laser, Dr. E.Stratakis group(Ultrafast Laser Micro and Nano Processing Laboratory).
- Manufacture and characterization of polymeric films using soft lithography, resulting in journal publication.

## **ADDITIONAL SKILLS**

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**SOFTWARE:** - Highly competent user of Microsoft Office (Word, Excel, PowerPoint) and Origin.

**LANGUAGES:** - Greek (Native)  
- English: Well (B2 Edexcel)  
- French: Well(B2-Paris-Sorbonne)

## **PUBLICATIONS**

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- Engineering Cell Adhesion and Orientation via Ultrafast Laser Fabricated Microstructured Substrates, Eleftheria Babaliari, Paraskevi Kavatzikidou, Despoina Angelaki, Lefki Chaniotaki, Alexandra Manousaki, Alexandra Siakouli-Galanopoulou, Anthi Ranella and Emmanuel Stratakis, 2018, International Journal of Molecular Sciences,19,2053.

## **REFERENCES**

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Available on request.