

# Christina Zacharoula Chaniotaki

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## Education

### University of Southern California (USC)

Los Angeles, California

PH.D. IN COMPUTER SCIENCE

Aug 2023 – present

- **GPA:** 3.66. **Research Interests:** Software Engineering, Software Testing, Web Services. **Advisor:** Prof. William G.J. Halfond.

### Athens University of Economics and Business (AUEB)

Athens, Greece

MSC IN INFORMATION SYSTEMS

Oct 2019 – Jan 2022

- **GPA:** 3.5 (8.74/10) – "Distinction". **Thesis:** "An Empirical Investigation of Boilerplate Code," supervised by Prof. Diomidis Spinellis.

### Athens University of Economics and Business (AUEB)

Athens, Greece

BSC IN MANAGEMENT SCIENCE AND TECHNOLOGY

Sep 2014 – Oct 2018

- **GPA:** 3.71 (9.28/10) – Ranked 1<sup>st</sup> of 48 students in cohort. **Major:** Software Engineering and Data Science.
- **Thesis:** "DNA – Distributed Network Architecture," co-authored with Konstantinos Kopanidis and supervised by Prof. Panos Louridas, Prof. George Xylomenos and, asst. Prof. Dimitris Mitropoulos.

## Professional Experience

### University of Southern California (USC)

Los Angeles, California

GRADUATE TEACHING ASSISTANT (PART-TIME)

Aug 2023 – present

- **Spring 2024, 2025:** CSCI 310 - Software Engineering, Prof. William G.J. Halfond.
- **Fall 2023, 2024:** CSCI 530 - Security Systems, Prof. Clifford Neuman.

### European Banking Authority (EBA)

Paris, France

SENIOR SOFTWARE ENGINEER (FULL-TIME)

Feb 2023 – Jun 2023

- **Anti-money Laundering Platform:** Maintenance and development of the web application.
- **Egate:** Maintenance and development of the Competent Authorities Notification system.
- **Tech Skills:** Java, Angular, Docker, MongoDB, CSS.

### UBITECH LTD

Athens, Greece

SENIOR SOFTWARE ENGINEER (FULL-TIME) - TEAM LEADER

Jun 2022 – Feb 2023

- **ResearchHUB:** Design, implementation, and development of a platform that aggregates data for research projects in the UAE.
- **eu-LISA:** Graphical design and development of the Greek Entry-Exit System for border control.
- **Tech Skills:** Quarkus, Angular, Docker, Elastic, MongoDB, Vue.js, Minio, Figma, Node.js, SQL, CSS.

SENIOR SOFTWARE ENGINEER (FULL-TIME)

Aug 2020 – Jun 2022

- **Dehems:** Graphical design and development of a platform for monitoring patient records and experiments on HIV blood samples.
- **Infinitech:** Development of a PoC for a Consent Management System for Banking Services.
- **Tech Skills:** Spring-boot, Quarkus, Angular, Docker, Elastic, Vue.js, Minio, Figma, SQL, MongoDB, CSS.

SOFTWARE ENGINEER (FULL-TIME)

Nov 2018 – Aug 2020

- **ICARUS:** Design and development of the platform for an aviation industry-sensitive data processing and marketplace platform.
- **Tech Skills:** Spring-boot, Angular, Docker, Elastic, MongoDB, Minio, Figma, Node.js, SQL, CSS, WordPress.

### Oracle

Athens, Greece

BACK-END DEVELOPER (CONTRACTOR)

Summer 2018

- Development of the back-end system for managing user information in the Hellenic Telecommunications Organisation.
- **Tech Skills:** Java EE, OracleDB, Web Services.

### Cardlink

Athens, Greece

FULL STACK WEB DEVELOPER (INTERN)

Spring 2018

- **Cardlink Pulse:** Design, implementation, and development of a platform for managing data of merchant e-shop businesses.
- **Tech Skills:** MEAN stack (Angular, MongoDB, Node.js), Docker, Python.

### Quintessential SFT

Athens, Greece

SOFTWARE ENGINEER (FREELANCE)

Aug 2017 – Jul 2019

- **Cardlink Chatbot:** Development of a customer support service chatbot.
- **Cloudnious:** Development of a Cloud-Based SaaS billing analytics platform.
- **GAMS Visualization:** Development of a platform for excel data visualization.
- **Tech Skills:** MEAN stack (Angular, MongoDB, Node.js), Docker, Chatbot (MS Bot Framework).

## Research Experience

### Software Quality Lab (SQL), USC

Los Angeles, California

RESEARCH ASSISTANT (PART-TIME)

Aug 2023 – present

- **Research area:** Program Analysis, Software Engineering, Web Accessibility, Software Testing, Web Services.
- **Advisor:** Prof. William G.J. Halfond.

### BALab, AUEB

Athens, Greece

RESEARCH ASSISTANT (PART-TIME)

Feb 2021 – Jun 2023

- Led an empirical investigation on Boilerplate Code, with Vaggelis Atlidakis, Zoe Kotti, Aggeliki Papadopoulou, George Liargovas, and Prof. Diomidis Spinellis.

## Publications

N.D. Sakkas, S. Yfanti, P. Shah, N. Sakkas, **C. Chaniotakis**, C. Daskalakis, M. Domnich, E. Barbu. “*Explainable approaches for forecasting building electricity consumption.*” Published at Multidisciplinary Digital Publishing Institute (MDPI) - Energies (2023).

N. Sakkas, **C. Chaniotaki**, N. Sakkas, C. Daskalakis. “*Building data models and data sharing. Purpose, approaches, and a case study on explainable demand response.*” Published at Emerging Concepts for Sustainable Built Environments (SBEFIN 2022).

**C. Chaniotaki**, P. Prodromidis. “*The trade sector and regions that displayed an increase in employment during the recession (2008–2015).*” Presented at the 19<sup>th</sup> Scientific Conference of the Association of Greek Regionalists (2016).

P. Lappas, E. Kritikos, **C. Chaniotaki**, C.T. Lardopoulou, and A. Gotsi. “*An Educational Scenario in the context of Scientific Process: Numerical Solution of Equations and Systems of Equations using Cognitive Tools.*” Presented at the 12<sup>th</sup> Department of Management Science and Technology (DMST) Student Conference (2015).

## Teaching Experience

### University of Southern California (USC)

Los Angeles, California

INSTRUCTOR

Mar 2024

- **One-hour lecture** about “Security from Implementation Perspective” in the course CSCI 310: Software Engineering under the supervision of Prof. William G.J. Halfond in a class of 200 students.

### UBITECH LTD

Greece

INSTRUCTOR

2019 – 2021

- **Three-hour seminar** session on “Angular Framework Architecture, Structure, and Best Practises with examples,” Nov 2021.
- **One-hour seminar** for “Design Patterns,” Feb 2020.
- **One-hour seminar** session on “Chatbots,” Feb 2019.

### Department of Management Science and Technology (DMST), AUEB

Athens, Greece

GUEST-LECTURE

Spring 2018 & 2019

- **Four four-hour lectures** on how to “Design a Mobile App From Scratch” under the supervision of Prof. George Lekakos.

## Honors and Awards

2023-2027 **Funding - Research or Teaching Assistantship**, Ph.D. in Computer Science, USC

Los Angeles, CA

2023-2027 **Scholarship - 5,000\$ from Gerondelis Foundation**, Ph.D. in Computer Science, USC

Los Angeles, CA

2019 **Scholarship - 50% tuition**, MSc in Information Systems, AUEB

Athens, Greece

2018 **1<sup>st</sup> place winner**, Central Hackathon

Lamia, Greece

## Professional Service

2023 **Junior Program Committee (PC)**, Mining Software Repositories (MSR) 2023

Athens, Greece

## Skills

**Programming Languages:** Java, JavaScript, Typescript, Python, HTML5, CSS3, JSP, jQuery, R,  $\text{\LaTeX}$ .

**Frameworks; Libraries:** Spring-Boot, Quarkus, Angular, Vue.js, MEAN Stack, RESTful API, Chatbots (BotBuilder), Electron.js, Minio, Hibernate, Maven, NPM, Soot.

**Databases:** SQL, MySQL, MSSQL, Postgres, OracleDB, MongoDB, Redis.

**Other:** Node.js, Docker, Git, Alexa Skill, Matlab, WordPress, Firebase, Elastic, Solr, Nginx, Selenium.

**Other Skills:** Code Review, Debugging, Testing, User Experience/User Interface (UX/UI), Figma.

**Languages:** Greek (Native), English (fluent oral and writing), Spanish (A1 - Basic words and phrases only).