

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 1st 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 19th 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 12th 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

2024 **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 **1st 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, \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).