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:** 3.67. **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 (DMST) *Sep 2014 – Oct 2018*
- **GPA:** 3.71 (9.28/10) – Ranked 1st of 48 students in cohort. **Major:** Software Engineering and Data Science.

Professional Experience

Amazon AWS *New York City, New York*
APPLIED SCIENTIST II (INTERN) *Summer 2025*
- AWS Proactive Security Detective Tooling (PSDT) team. **Manager:** George Argyros.
- **Artemis**: Detecting authorization issues through source code analysis using AI-agents.
- **Tech Skills:** Python, Java, Static Analysis, Agentic AI, APIs, Coral Services.

University of Southern California (USC) *Los Angeles, California*
GRADUATE TEACHING ASSISTANT (PART-TIME) *Aug 2023 – May 2025*
- **Spring 2024, 2025:** CSCI 310 - Software Engineering, Prof. William G.J. Halfond.
- **Fall 2023, 2024:** CSCI 530 - Security Systems, Prof. Clifford Neuman.

GRADUATE RESEARCH ASSISTANT (PART-TIME)
- **Summer 2024:** Working on an Empirical study for Web Accessibility, with Dr. Paul Chiou and Prof. William G.J. Halfond.

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.
- **Cloudnous:** 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.

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, 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 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.

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*

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, ANTLR.

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).