

Georgios Liargkovas

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Education

Athens University of Economics and Business (AUEB)

BSc in Management Science & Technology

Athens, Greece

Sep 2018 - Mar 2023

- **Grade:** 9.37/10 "Arista" (Distinction) – 2nd among 120 students – top 1.6%
- **Major:** Software Engineering and Data Analysis
- **Thesis title:** Scientific Collaboration and Diasporas - The case of Greek and Finnish co-authorship network.

Publications

- **Georgios Liargkovas**, Konstantinos Kallas, Michael Greenberg and Nikos Vasilakis, "Executing Shell Scripts in the Wrong Order, Correctly", *19th Workshop on Hot Topics in Operating Systems (HotOS XIX)*, Providence, RI, USA, 2023 ([link](#))
- **Georgios Liargkovas**, Angeliki Papadopoulou, Zoe Kotti and Diomidis Spinellis, "Software Engineering Education Knowledge Versus Industrial Needs", *IEEE Transactions on Education*, 2021 ([link](#))

Research and Work Experience

Secure Open Source Software and Hardware Adaptable Framework (SecOPERA)

Research Software Engineer (Advisor: [Prof. Panos Louridas](#))

Athens, Greece

May. 2023 - Present

- Requirement Specification & Validation and Architectural Design of Secure Open Source Software and Hardware Adaptable Framework (SecOPERA), a comprehensive hub for open-source solutions, offering analysis, security enhancements, and life-cycle support funded by an EU Horizon Europe grant.
- Exploring update orchestration and scheduling solutions for the SecOPERA secure module pool.

Athens University of Economics and Business, BALab, AUEB

Junior Researcher (Advisor: [Prof. Diomidis Spinellis](#))

Athens, Greece

Mar 2020 - Present

- Carried out research about the gap between software practitioners' education and industry demands. 📖
- Examined the use of static analysis warning suppression to detect motives behind their use and impact on software projects.
- Assisted in an empirical study of boilerplate code.

Brown University

Research Affiliate (Advisor: [Prof. Nikos Vasilakis](#))

Providence, RI, United States

Oct 2022 - May 2023

- Created a speculative, out-of-order execution engine of POSIX shell scripts. 📖
- Co-developed [try](#), a lightweight tool that lets users run a command and inspect its effects before changing their live system, via Linux's namespaces and the Overlayfs union filesystem (4.9k+ Github stars).
- **Technologies & tools used:** Python, Shell scripting (bash/zsh), Docker, System call tracing & isolation, Linux namespaces, OverlayFS

Ubitech Ltd.

Software Engineering Intern

Athens, Greece

Mar 2022 - Jun 2022

- Implement backend/frontend components of a Content Management Software (CMS) for Heraklion Archaeological Museum.
- Implement front-end components for internal e-commerce project.
- **Technologies & tools used:** Java (Quarkus), Docker, Javascript (React, Vue.js), Figma

Teaching Experience

Athens University of Economics and Business

Programming II (Undergraduate Level, 2nd year, Students: 180)

Athens, Greece

Fall 2023

- **Role:** Teaching Assistant (TA)
- Delivered bi-weekly lectures on Compilers, Data Structures, Functional and Generic Programming in Java.
- Aided students in course assignments during weekly lab support sessions.

Athens University of Economics and Business

Applied Software Engineering (Undergraduate Level, 3rd year, Students: 50)

Athens, Greece

Spring 2022, 2023

- **Role:** Teaching Assistant (TA),
- Assisted in course assignment evaluation, providing feedback on individual students' assignments.

- **Role:** Lead Teaching Assistant (TA)
- Responsible for overall course organization, lectures, labs, individual assignments, and assessment.
- Lectured on a weekly basis on Computer Architecture, Networks, Algorithms, Data Structures and Databases.
- Fully automated final examination by creating a customizable multiple choice exam generator.
- Honorary Departmental Award 🏆

Volunteering Experience & Service

EuroSys '24

Athens, Greece

Junior PC Member

April 2024

- Paper reviews as Light Junior PC member.

International Conference on Mining Software Repositories '24 (MSR '24)

Lisbon, Portugal

Co-Chair of Web Presence & Junior PC Member

April 2024

- Responsible for creating and managing the conference's website.
- Paper reviews as Junior PC member.

International Conference of Software Engineering '22 (ICSE '22)

Pittsburgh, PA, USA

Student Volunteer

May 2022

- In-person conference support on physical and online conference sessions.

ESEC/FSE '21

Athens, Greece (Remote)

Student Volunteer

August 2021

- Remote conference support on online sessions.

JabRef

Germany (Remote)

Open-Source Software Contributor

June 2021

- Designed and expanded functionality for file import dialog windows ([link](#))
- **Technologies & tools used:** Java (JDK 15, JavaFX)

ELOI Computer Lab, AUEB

Athens, Greece

Lab Assistant

Sept. 2018 - Feb. 2019

- Responsible for the operation of the lab during evening hours, twice a week

Honors and Awards

2023 HotOS Student Grant (\$ 700), ACM SIGOPS

Providence, RI, USA

2022 Research Scholarship Award (€ 2,400), Athens University of Economics and Business

Athens, Greece

2022 ACM SIGSOFT CAPS Grant (\$ 700), ICSE 2022

Pittsburgh, PA, USA

2022 ACM SIGSOFT Support Grant (\$ 1000), Student Mentoring Workshop, ICSE 2022

Pittsburgh, PA, USA

2022 Honorary Departmental Award, Athens University of Economics and Business

Athens, Greece

Societies & Affiliations

2023 - Student Member, ACM SIGOPS

New York, NY, USA

2022 - Student Member, ACM SIGSOFT

New York, NY, USA

2022 - Member, MIT Hellenic Students Association

Boston, MA, USA

Languages

English Fluent - C2

French Intermediate - B2

Greek Native

Skills

Programming C, HTML/CSS, JSP, JavaScript, MATLAB, Python, SQL, Shell scriptng, Java
Miscellaneous Apache Hadoop, Git, Keras, L^AT_EX, MSSQL Server, Microsoft Office (ECDL Core), MySQL, Neo4J, PowerBI, Redis, SPSS, Shell (Bash/Zsh), TensorFlow2