

Georgios Liargkovas

29, Patroklou, Vrilissia, 15235, Attica, Greece

✉ gliargovas@aub.gr | 🏠 gliargovas.github.io | 📧 gliargovas | 🔗 george-liargovas-796259175 | 🎓 Georgios Liargkovas

Education

Athens University of Economics and Business (AUEB)

Athens, Greece

BSc in Management Science & Technology

Sep 2018 - Mar 2023

- **Grade:** 9.37/10 (top 1.5% among 180 students) – **Major:** Software Engineering and Data Analysis
- **Selected courses:** Programming II (Advanced Java Programming), Algorithms & Data Structures, Compilers, Software Verification & Validation, Analysis & Design of Information Systems, Information Systems Implementation & Architecture, Applied Software Engineering, Applied Machine Learning, Database Management Systems, Big Data Management Systems
- **Thesis title:** Scientific Collaboration and Diasporas - The case of Greek and Finnish co-authorship network.

Costeas Geitonas School (CGS)

Athens, Greece

High School Diploma

Sep 2015 - Jun 2018

- **Grade:** 19.8/20 (first among graduate class of 22 students)
- **Concentration:** Economics and Information Technology

Research and Work Experience

Secure Open Source Software and Hardware Adaptable Framework (SecOPERA)

Athens, Greece

Research Software Engineer

May. 2023 - Present

- Will implement various modules of the Secure Open Source Software and Hardware Adaptable Framework (SecOPERA), a comprehensive hub for open-source solutions, offering analysis, security enhancements, and DevSecOps lifecycle support with verifiable security guarantees, funded by European Union's Horizon Europe grant.
- **Supervisor:** Prof. Panos Louridas

Athens University of Economics and Business, BALab, AUEB

Athens, Greece

Junior Researcher (Advisor: Prof. Diomidis Spinellis)

Mar 2020 - Present

- Carried out research about the gap between software practitioners' education and industry demands. 📖
- Examined the use of static analysis suppression annotations to detect motives behind their use and impact on software projects. 📄 (under review)
- Currently assisting in research on "Empirical Investigation of Boilerplate Code".

Brown University

Providence, RI, United States

Research Affiliate (Advisor: Prof. Nikos Vasilakis)

Oct 2022 - May 2023

- Worked on expanding PaSh by creating a speculative, out-of-order execution engine of POSIX shell scripts. 📖
- 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 (4.5k+ Github stars).
- **Technologies & tools used:** Python, Shell scripting (bash/zsh), Docker, System call tracing & isolation, Linux namespaces, OverlayFS

Ubitech Ltd.

Athens, Greece

Software Engineering Intern

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

Athens, Greece

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

Spring 2022, 2023

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

Athens University of Economics and Business

Athens, Greece

Introduction to Computer Science (Undergraduate Level, 1st year, Students: 180)

Fall 2022

- **Role:** Lead Teaching Assistant (TA)
- Responsible for overall course organization, lectures, labs, individual assignments, and assessment. Lectured on a weekly basis.
- Fully automated final examination by creating a randomized custom multiple choice exam generator.

Publications

- **Georgios Liargkovas**, Angeliki Papadopoulou, Zoe Kotti and Diomidis Spinellis, “**Software Engineering Education Knowledge Versus Industrial Needs**”, *IEEE Transactions on Education*, 2021 ([link](#))
- **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](#))

Work Under Review

- **Georgios Liargkovas**, Evangelia Panourgia and Diomidis Spinellis, “**Quieting the Static: A Study of Static Analysis Alert Suppressions**” Submitted on: *46th International Conference on Software Engineering (ICSE '24)*, Lisbon, PT, 2024

Volunteering Experience

International Conference on Mining Software Repositories '23 (MSR '23)

Lisbon, Portugal

Co-Chair of Web Presence

April 2024

- Responsible for creating and managing the conference's website.

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 '22 Conference

Athens, Greece (Remote)

Student Volunteer

May 2022

- 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 Educational Lab, AUEB

Athens, Greece

Lab Assistant

Sept. 2018 - Feb. 2019

- Responsible for the operation and security of the lab during after hours, twice a week

Skills

Programming

C, HTML/CSS, JSP, JavaScript, MATLAB, Python, SQL, Shell scriptng, Java

Miscellaneous

Apache Hadoop, Git, L^AT_EX, MSSQL Server, Microsoft Office (ECDL Core), MySQL, Neo4J, PowerBI, Redis, SPSS, Shell (Bash/Zsh)

Honors and Awards

2023 **HotOS Student Grant**, ACM SIGOPS

Providence, RI, USA

2022 **Research Scholarship Award**, Athens University of Economics and Business

Athens, Greece

2022 **ACM SIGSOFT CAPS Grant**, ICSE 2022

Pittsburgh, PA, USA

2022 **ACM SIGSOFT Support Grant**, Student Mentoring Workshop, ICSE 2022

Pittsburgh, PA, USA

2022 **Academic Award**, Athens University of Economics and Business

Athens, Greece

2018 **Academic Scholarship Award**, Costeas Geitonas School (CGS)

Athens, Greece

Societies & Affiliations

2023 - **Student Member**, ACM SIGSOPS

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

References available upon request.