# Georgios Liargkovas

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### Education \_\_\_\_\_

Columbia UniversityNew York, NY, USAPhD in Computer ScienceSep 2024 - Present

Advisor: Prof. Kostis Kaffes

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

Athens, Greece

Sep 2018 - Mar 2023

BSc in Management Science & Technology

- **Grade:** 9.37/10 (2<sup>nd</sup> 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

**Brown University** 

Providence, RI, United States

Oct 2022 - Aug 2024

Research Affiliate (Advisor: Prof. Nikos Vasilakis)

- Created hs 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 (4.6k+ Github stars).
- Technologies & tools used: Python, Shell scripting (bash/zsh), Docker, System call tracing & isolation, Linux namespaces, OverlayFS

#### Athens University of Economics and Business, BALab, AUEB

Athens, Greece

Junior Researcher (Advisor: Prof. Diomidis Spinellis)

Mar 2020 - Aug 2024

- 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 a empirical study of boilerplate code.

#### Secure Open Source Software and Hardware Adaptable Framework (SecOPERA)

Athens, Greece

Research Software Engineer (Advisor: Prof. Panos Louridas)

May 2023 - May 2024

• Requiremnt Specification & Validation and Architectural Desingn of Secure Open Source Software and Hardware Adaptable Framework (SecOPERA), a hub for open-source solutions funded by an EU Horizon Europe grant. (link)

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

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

Fall 2023

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

#### **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.

October 2023

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 on Computer Architectire, Networks, Algorithms, Data Structures and Databases.
- Fully automated final examination by creating a customizable multiple choice exam generator.

# Volunteering Experience & Service \_\_\_\_\_

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

Lisbon, Portugal

Co-Chair of Web Pressence

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

### Honors and Awards

2024	SEAS Doctoral Fellowship, Columbia University	New York, NY, USA
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	Honorary Award, Athens University of Economics and Business	Athens, Greece

## 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, Lagran, MSSQL Server, Microsoft Office (ECDL Core), MySQL,

Neo4J, PowerBI, Redis, SPSS, Shell (Bash/Zsh), TensorFlow2

October 2023