ICS-FORTH, 100 N. Plastira Av. Vassilika Vouton, Heraklion, GR-70013, Greece

■ kolokasis@ics.forth.gr |

↑ www.csd.uoc.gr/~kolokasis |

↑ jackkolokasis

Research Interests

- Large Scale Distributed Systems
- Memory and Storage Systems
- Big Data Computations
- Java Virtual Machines

- Computer Systems
- · Operating Systems

Professional Experience

SAP HANA VORA Walldorf, Germany

INTERN RESEARCH STUDENT

Jun. 2019 - Present

• Improving performance of SQL query compiler by optimize semantic analysis using efficient and low memory consumption data structures.

ICS-FORTH Heraklion, Greece

GRADUATE RESEARCH ASSISTANT

Sep. 2017 - May 2019

- Researched approaches to expand memory address space for JVM-based large-scale data analytics frameworks using fast storage devices (SSDs, NVM)
- Implemented extra storage level on Apache Spark to cache data off-heap on non-volatile memories.
- Scheduled techniques for data placement for large scale graph analytics (Apache Spark GraphX).

ICS-FORTH Heraklion, Greece

Undergraduate Research Assistant

Jan. 2017 - Aug. 2017

 Study how graph partitioners dominate the performance of large scale graph analytics framewrorks using Apache Spark GraphX inventing some characterization metrics.

Education

University of Crete

Heraklion, Greece

M.Sc. IN COMPUTER SCIENCE

Sep. 2017 - Present

- · Area of Study:
 - Parallel and Distributed Systems
 - Arhitecture of Microelectronic Systems
- **GPA (until now):** 9.43/10
- Thesis Topic: Expand memory address space for JVM-based large scale data analytics frameworks using fast storage devices (SSD, NVM)
- Supervisors: Angelos Bilas and Polyvios Pratikakis

University of Crete Heraklion, Greece

B.Sc. IN COMPUTER SCIENCE

Sep. 2011 - Jul. 2017

- **GPA:** 7.62/10 3rd/20 in Graduation Ceremony
- Thesis Topic: Locality optimizations for distributed graph analytics computations
- Supervisor: Polyvios Pratikakis

Publications.

Full Papers / Articles

Iacovos G. Kolokasis and Polyvios Pratikakis. Cut to Fit: Tailoring the Partitioning to the Computation. 2nd Joint International Workshop on Graph Data Management Experiences & Systems (GRADES) and Network Data Analytics (NDA), June 30-July 2019, Amsterdam, Netherlands

Technical Reports

lacovos G. Kolokasis and Polyvios Pratikakis. Cut to Fit: Tailoring the Partitioning to the Computation. Technical Report 469, ICS – FORTH, Apr 2018

Financial Support_

ICS-FORTH Heraklion, Greece

GRADUATE SCHOLARSHIP

Apr. 2019 - May 2019

Graduate Scholarship supported by the European Commission under the H2020 Framework Programme through the EVOLVE(GA 825061)
project

SAP SE Heidelberg, Germany

SCHOLARSHIP

• Received a full scholarship from SAP SE to attend the 6^{th} Heidelberg Laureate Forum

ICS-FORTH Heraklion, Greece

GRADUATE SCHOLARSHIP Marc. 2018 - Mar. 2019

 Undergraduate Scholarship supported by the European Commission under the H2020 Framework Programme through the EUROEXA(GA 754337) project

ICS-FORTH Heraklion, Greece

UNDERGRADUATE SCHOLARSHIP

Jul. 2017 - Oct. 2017

Sep. 2018 - Sep. 2018

 Undergraduate Scholarship supported by the European Commission under the H2020 Framework Programme through the EUROEXA(GA 754337) project

ICS-FORTH Heraklion, Greece

UNDERGRADUATE SCHOLARSHIP

Sep. 2012 - Sep. 2013

My second year at the university was supported fully by fellowships "Stelios Orphanoudakis"

Honors & Awards

Finalist, Programming contest organized by CYTA

Nicosia, Cyprus

Attended Conferences, Workshops & Summer schools.

Jul. 2019 Alibaba Cloud Day, Attend the conference Walldorf, Germany

Amsterdam, Jun. 2019 GRADES-NDA, Present paper: Cut to Fit: Tailoring the Partitioning to the Computation Netherlands

Oct. 2018 CSW Autumn, Attend the conference Heraklion, Greece

Heidelberg, Sept. 2018 6th HLF, Attend the conference

Germany

Jul. 2018 14th ACACES, Participate and present my work during the one week summer school Fiuggi, Italy

Jul. 2018 7th YSC, Attend the conference Heraklion, Greece

Teaching Experience

Introduction to Computer Science (CS-100)

University of Crete

TEACHING ASSISTANT • Professor: Polyvios Pratikakis

- · Assignments design with the professor and another TA
- Answering students quentions about the assignments
- · Marking assignments submissions and examination scripts

Parallel Computing (CS-342)

University of Crete

TEACHING ASSISTANT

Spr. 2018, 2019

- Professor: Polyvios Pratikakis
- · Hands on lecture about Performance and Evaluation on Parallel systems
- · Hands on lecture about programming in Scala
- · Marking project submissions and examination scripts
- · Answering students quenstions

Data Structures (CS-240)

University of Crete

TEACHING ASSISTANT

Spr. 2018

- Professor: Panagiota Fatourou
- Project co-design with the professor and another TA
- Answering students quenstions about the project
- · Marking project submissions and examination scripts

Digital Design (CS-120)

TEACHING ASSISTANT

University of Crete

Fall 2017

- Professor: Manolis G.H. Katevenis
- · Rensponsible for two hour laboratories where undergraduate strudents learn the basics of digital design and implement a simple processor
- · Marking assignments and examination scripts

Extracurricular Activity

Computer Science Department, University of Crete

DEPUTY GRADUATE STUDENTS REPRESENTATIVE

Heraklion, Greece

Sep 2019 - Aug 2020

• Take part in the monthly general assembly of the department, representing the graduate students

Graduate Students Association (GSA) CSD Board Council

TREASURER

Heraklion, Greece Feb 2018 - Present

- Oversee the financial administration of the association, review procedures and financial reporting.
- · Working closely with other members of the board council directing the major aspects of the assiciation's operations

Board Council of the Cypriot Students' Union

Heraklion, Greece

PUBLIC RELATION OFFICER

May 2012 - May 2015

• I was in charge of writing documents in a meeting, led sessions and organized events.

Program Committees

Member of Organization Committee, 1st Graduate Students Conference

Heraklion, Greece

Skills_

Languages English, Greek, French

References

Angelos Bilas Heraklion, Greece

PROFESSOR AT UNIVERSITY OF CRETE & ASSOCIATE RESEARCHER AT ICS-FORTH bilas@ics.forth.gr

Polyvios Pratikakis Heraklion, Greece

PROFESSOR AT UNIVERSITY OF CRETE & ASSOCIATE RESEARCHER AT ICS-FORTH polyvios@ics.forth.gr