

DIMITRA GIANTSIDI

(+30) 697 895 574 · dimitra.giantsidi@gmail.com

Informatics Forum 1.05, University of Edinburgh

10 Crichton Street, EH8 9AB, Edinburgh, United Kingdom

EDUCATION

University of Edinburgh, UK

September 2019 - present

PhD in Computer Systems, Member of Institute for Computing Systems Architecture

Sponsored by Microsoft

Supervised by Pramod Bhatotia

University of Edinburgh, UK

September 2018 - August 2019

MSc, Computer Science

Specialization Area: Software Engineering, Computer Systems & High Performance Computing

Thesis: “Rollback-Resilient Transaction Protocols using Trusted Counters”

National Technical University of Athens (NTUA), Greece

September 2012 - February 2018

MEng, Electrical Engineering & Computer Science

Thesis: “Improving QoS in modern multi-core servers with Dynamic Cache Partitioning”

Supervised by Georgios Goumas

PUBLICATIONS

1. Maurice Bailleu and Dimitra Giantsidi and Vasilis Gavrielatos and Do Le Quoc and Vijay Nagarajan and Pramod Bhatotia Avocado: A Secure In-Memory Distributed Storage System. In *Proceedings of 2021 USENIX Annual Technical Conference (USENIX ATC 21)*
2. Konstantinos Nikas, Nikela Papadopoulou, Dimitra Giantsidi, Vasileios Karakostas, Georgios Goumas, and Nectarios Koziris. Dicer: Diligent cache partitioning for efficient workload consolidation. In *Proceedings of the 48th International Conference on Parallel Processing, ICPP 2019*, pages 15:1–15:10, New York, NY, USA, 2019. ACM

SKILLS

Programming

C/C++, Python, bash, Golang, Java, HTML/CSS, JavaScript

Linux APIS & Parallel Programming

Cgroups, Namespaces, BSD Sockets, VirtIO, cryptodev, OpenMP, POSIX API, MPI

Virtualization

KVM, Qemu/Libvirt, Docker, Kubernetes

Distributed Programming

Hadoop MapReduce, Sockets, RPCs

Version Control

Git

Others

LLVM, collectd, Intel RDT, RocksDB, SCONE/SGX, DDPK/SPDK, RDMA, Open Enclave SDK

WORK EXPERIENCE

Microsoft Research, Cambridge, UK

September 2021 - December 2021

Research Intern at Confidential Computing Group

University of Edinburgh, UK

2019-20/2020-21/2021-22

Teaching Assistant at *Operating Systems*

Edinburgh, UK

September 2019 - December 2019

Marker at *Extreme Computing*

Intracom Telecom, Athens, Greece

July 2017 - July 2018

Software & Systems Engineer

Post-deployment performance and energy optimization of NFV services running on private Data Centers using Intel's Technologies (DPDK, RDT, NFV and Network Service Benchmarking). Kubernetes, Docker, Qemu/KVM, Libvirt VMs and collectd has been extended and used for orchestration, deployment and monitoring of the services. Test driven web development (Django Rest Framework).

Mathaid, Greece

September 2014 - January 2016

Volunteer Mathematics Tutor to high-school students

NTUA, Greece

September 2013 - August 2014

Teaching Assistant at *Introduction to Programming* and *Programming techniques* courses

SCHOLARSHIPS AND AWARDS

PhD scholarship, **Microsoft Research**

2019

Claire Jones Prize, **Adelard**

2019

prize for Best Performing Female MSc Student at the University of Edinburgh

High school award for national university entrance examinations score. Scored 97,48%
(top 1% among 85.000 candidates)

2012

SEMINARS AND CERTIFICATIONS

Workshop on *Physical Attacks and Countermeasures for Embedded and IoT Systems*
provided by SecuringHardware.com

2019

Kubernetes Fundamentals, online course by The Linux Foundation (Certificate: 61%)

2017

LANGUAGES

Greek native speaker

English proficient

PROFILES

Personal site <https://dgiantsidi.github.io/>