Marios Kogias

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RESEARCH FOCUS

Operating Systems, Networking, Datacenters, Tail Latency, Rermote Procedure Calls, Dataplanes, Scheduling, Load-balancing, Network Transports, Programmable Switches

EDUCATION

Doctor of Philosophy   September 2015 - present
School of Computer and Communication Sciences
École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Advisor: Edouard Bugnion

Diploma (5-year degree, Master's equivalent)   October 2009 - October 2014
School of Electrical and Computer Engineering
National Technical University of Athens (NTUA), Greece
Thesis Advisor: Nektarios Koziris
GPA: 9.36/10.00 (top 2%)

Apolytirion (High School Certificate)   June 2009
4th High School of Lamia, Greece
GPA: 19.9/20.00

EXPERIENCE

Research Intern   June 2018 - September 2018
Microsoft Research, Redmond, US
I worked as part of the Cloud Efficiency group on latency-critical VM scheduling.
Advisors: Ricardo Bianchini, Sameh Elnikety

Software Engineering Intern   June 2016 - September 2016
Google, Mountain View, US
I worked as part of the Platforms team on performance analysis of the Google datacenter network.
Advisor: Malweeka Tewari

Software Engineering Intern   November 2014 - April 2015
CERN, Geneva, CH
I worked on the invenio project, a digital library software, implementing a new search engine based on ElasticSearch.

Software Engineering Intern   May 2014 - August 2014
Google Summer of Code - LTTng project
I worked on implementing a tracing pipeline for Ceph's RADOS on LTTng and Twitter's Zipkin. This work was taken over by Ceph and now is part of their upstream repository.

Junior Developer   July 2013 - September 2013
okeanos, GRNET, Athens, GR
I contributed to the Synnefo project, specifically on the virtual networking infrastructure implementing the Openstack Neutron API for Synnefo in Python Django

Founder, Software Engineer   December 2010 - September 2013
sourcelair.com, Athens, GR
I worked on sandboxing untrusted code execution and created the sourcelair iOS
mobile application.

PUBLICATIONS *R2P2: Making RPCs first-class datacenter citizens*
Marios Kogias, George Prekas, Adrien Ghosn, Jonas Fietz, Edouard Bugnion
Usenix ATC 2019, Renton

Lancet: A self-correcting Latency Measuring Tool
Marios Kogias, Stephen Mallon, Edouard Bugnion
Usenix ATC 2019, Renton

Flow Control for Latency-Critical RPCs
Marios Kogias, Edouard Bugnion
KBnets@SIGCOMM18, Budapest

ZygOS: Achieving Low Tail Latency for Microsecond-scale Networked Tasks
George Prekas*, Marios Kogias*, Edouard Bugnion (*equal co-authors)
26th ACM Symposium on Operating Systems Principles, Shanghai

Measuring Latency: Am I doing right? (Poster)
Marios Kogias, Christos Kozyrakis, Edouard Bugnion
14th USENIX Symposium on Networked Systems Design and Implementation, Boston

IX Open-source v1.0 – Deployment and Evaluation Guide
George Prekas, Adam Belay, Mia Primorac, Ana Klimovic, Sam Grossman, Marios
Kogias, Bernard Gutermann, Christos Kozyrakis, Edouard Bugnion
EPFL Technical Report 218568, May 2016

TEACHING   Principles of Computer Systems (EPFL, CS-522)   Winter 2017,2018,2019
Introduction to Operating Systems (EPFL, CS-323)   Spring 2019
Database Systems (EPFL, CS422)   Spring 2018
Mise a Niveau (EPFL, MAN)   Spring 2017
Computer Networks (EPFL, COM-208)   Winter 2016

PROFESSIONAL ASPLOS 2020 Artifact Evaluation Committee
SERVICE   Eurosys 2020 Shadow PC
Eurosys 2017 Shadow PC
External Reviewer for IEEE/ACM Transactions on Networking

AWARDS   2019 IBM PhD Fellowship
EPFL PhD Fellowship 2015-2016

GRANTS   Microsoft Swiss JRC, Project: TTL-MSR (co-PI)
Usenix Student Grant to attend NSDI 2017