

# Marios Kogias

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<b>RESEARCH FOCUS</b>	Operating Systems, Networking, Datacenters, Tail Latency, Remote Procedure Calls, Dataplanes, Scheduling, Load-balancing, Network Transports, Programmable Switches	
<b>EDUCATION</b>	<i>Doctor of Philosophy</i>	September 2015 - August 2020
	School of Computer and Communication Sciences École Polytechnique Fédérale de Lausanne (EPFL), Switzerland Advisor: Edouard Bugnion	
	<i>Diploma (5-year degree, Master's equivalent)</i>	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%)	
<b>EXPERIENCE</b>	<i>Post-Doctoral Researcher</i>	September 2020 - present
	Microsoft Research, Cambridge, US Confidential Computing Group	
	<i>Research Intern</i>	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	
	<i>Software Engineering Intern</i>	June 2016 - September 2016
	Google, Mountain View, US I worked as part of the Platforms team on performance analysis of the Google data-center network. Advisor: Malweeka Tewari	
	<i>Software Engineering Intern</i>	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.	
	<i>Software Engineering Intern</i>	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.	
	<i>Junior Developer</i>	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 the sourcelair iOS application.

**CONFERENCE** *Bypassing the Load Balancer Without Regrets*

**PUBLICATIONS** Marios Kogias, Rishabh Iyer, Edouard Bugnion  
SoCC 2020

*HovercRaft: Scalability and Fault-tolerance for  $\mu$ s-scale Datacenter Services*

Marios Kogias, Edouard Bugnion

Eurosys 2020 **Best Student Paper Award**

*R2P2: Making RPCs first-class datacenter citizens*

Marios Kogias, George Prekas, Adrien Ghosn, Jonas Fietz, Edouard Bugnion

Usenix ATC 2019

*Lancet: A self-correcting Latency Measuring Tool*

Marios Kogias, Stephen Mallon, Edouard Bugnion

Usenix ATC 2019

*ZygOS: Achieving Low Tail Latency for Microsecond-scale Networked Tasks*

George Prekas\*, Marios Kogias\*, Edouard Bugnion (\*equal co-authors)

SOSP 2017

**WORKSHOP** *Tail-tolerance as a Systems Principle not a Metric*

**PUBLICATIONS** Marios Kogias, Edouard Bugnion

APNet 2020

*Flow Control for Latency-Critical RPCs*

Marios Kogias, Edouard Bugnion

KBnets@SIGCOMM18

**POSTERS** *SLOG: Your switch is also your load-generator*

Marios Kogias, Martin Weber, Edouard Bugnion

NSDI 2020

*Measuring Latency: Am I doing right?*

Marios Kogias, Christos Kozyrakis, Edouard Bugnion

NSDI 2017

**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**

Eurosys 2020 Best Student Paper Award  
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