Marios Kogias

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https://marioskogias.github.io/

RESEARCH FOCUS
Operating Systems, Networking, Datacenters, Tail Latency, Remote Procedure Calls, Dataplanes, Scheduling, Load-balancing, Network Transports, In-Network Compute

EXPERIENCE

Assistant Professor (Lecturer) — June 2022 - present
Imperial College London

Visiting Researcher — June 2022 - present
Microsoft Research, Cambridge, UK
Confidential Computing Group

Researcher — September 2020 - May 2022
Microsoft Research, Cambridge, UK
Confidential Computing Group

Research Intern — June 2018 - September 2018
Microsoft Research, Redmond, US
Advisors: Ricardo Bianchini, Sameh Elnikety

Software Engineering Intern — June 2016 - September 2016
Google, Mountain View, US
Advisor: Malweeka Tewari

Software Engineering Intern — November 2014 - April 2015
CERN, Geneva, CH

EDUCATION

Doctor of Philosophy — September 2015 - August 2020
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%)

AWARDS
ABB Dissertation Awawrd 2022
Dennis M. Ritchie Doctoral Dissertation Award 2021
Roger Needham 2021 Honorable Mention
Eurosys 2020 Best Student Paper Award
ASPLOS 2021 Distiguished Artifact
2019 IBM PhD Fellowship
EPFL PhD Fellowship 2015-2016

TEACHING
Networked Systems (COM 60032) Winter 2023

Computer Networks and Distributed Systems (COM 70041) Spring 2023,2024
Object Oriented Design and Programming (COM 70036) Winter 2022

PROFESSIONAL SERVICE

OSDI 2024
SIGCOMM 2024
CoNEXT 2024
NSDI 2023
EuroSys 2022, 2023, 2024
ASPLOS 2022, 2023, 2024
Middleware 2023, 2024
SOSR 2021, 2022
VEE 2021
ANCS 2021
OOPSLA 2021
EuroDW 2021
Workshops and Tutorials co-Chair ASPLOS 2022, EuroSys 2023

SELECTED PUBLICATIONS

Achieving Microsecond-Scale Tail Latency Efficiently with Approximate Optimal Scheduling
Rishabh Iyer, Musa Unal, **Marios Kogias**, George Candea
SOSP 2023

When Concurrency Matters: Behaviour-Oriented Concurrency
Luke Cheeseman, Matthew J. Parkinson, Sylvan Clebsch, **Marios Kogias**, Sophia Drossopoulou, David Chisnall, Tobias Wrigstad, Paul Liétar
in OOPSLA 2023

When Idling is Ideal: Optimizing Tail-Latency for Heavy-Tailed Datacenter Workloads with Perséphone
Henri Maxime Demoulin, Joshua Fried, Isaac Pedisich, **Marios Kogias**, Boon Thau Loo, Linh Thi Xuan Phan, Irene Zhang
SOSP 2021

Enclosure: language-based restriction of untrusted libraries
Adrien Ghosn, **Marios Kogias**, James Larus, Ed Bugnion
ASPLOS 2021

REAP: Record-and-Prefetch Serverless Functions Orchestration
Dmitrii Ustiugov, Plamen Petrov, **Marios Kogias**, Ed Bugnion, Boris Grot
ASPLOS 2021 **Distinguished Artifact**

HovercRaft: Scalability and Fault-tolerance for μs-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

ZygOS: Achieving Low Tail Latency for Microsecond-scale Networked Tasks
George Prekas*, **Marios Kogias***, Edouard Bugnion (*equal co-authors)
SOSP 2017