## Georgios Damaskinos

 $\begin{tabular}{ll} London, United Kingdom \\ Webpage: ${\tt gdamaskinos.com}$ \\ $E\text{-}mail: ${\tt georgios.damaskinos@gmail.com}$ \end{tabular}$ 

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Interests	Machine learning, Privacy, Mobile computing, Distributed systems, Recommender system	ns	
EDUCATION	Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland  Doctor of Philosophy, Computer Science  Thesis: "Private and Secure Distributed Learning"  Distributed Computing Lab - Rachid Guerraoui	09/2015 - 09/20	)20
	National Technical University of Athens (NTUA), Athens, Greece  Diploma in Electrical and Computer Engineering (5-year academic program, equivalent to M.Sc. degree)  GPA: 9.46 / 10 (top 2%)  Major: Computer Systems, Computer Software, Computer Networks  Thesis: "Profiling and cost modeling of join algorithms for Big Data Analytics"  Built a machine learning tool that automatically chooses the optimal engine (Spark, Hive, PostgreSQL) and configuration for the deployment of various join Computing Systems Laboratory - Nectarios Koziris	10/2010 - 07/20 algorithms.	)15
PUBLICATIONS	[8] "Unsupervised Topic Segmentation of Meetings with BERT Embeddings" A. Solbiati, K. Heffernan, G. Damaskinos, S. Poddar, S. Modi, J. Cali ArXiv, paper, code, video	06/20	)21
	<ul> <li>[7] "Differentially Private Stochastic Coordinate Descent"</li> <li>G. Damaskinos, C. Duenner, R. Guerraoui, N. Papandreou, T. Parnell</li> <li>AAAI 2021 and PPML @ NeurIPS 2020, paper, code, video</li> </ul>	12/20	)20
	[6] "FLeet: Online Federated Learning via Staleness Awareness and Performance Predicts G. Damaskinos, R. Guerraoui, A.M. Kermarrec, V. Nitu, R. Patra, F. Taiani Middleware 2020 (best paper award), paper, code, video	ion" 12/20	)20
	<ul> <li>[5] "DELF: Safeguarding deletion correctness in Online Social Networks"</li> <li>K. Cohn-Gordon, G. Damaskinos, D. Neto, J. Cordova, B. Reitz, B. Strahs,</li> <li>D. Obenshain, P. Pearce, I. Papagiannis</li> <li>USENIX Security Symposium 2020, paper, video</li> </ul>	08/20	)20
	[4] "The Imitation Game: Algorithm Selection by Exploiting Black-Box Recommenders" G. Damaskinos, R. Guerraoui, E. Merrer, C. Neumann <b>NETYS 2020</b> (International Conference on Networked Systems), paper, code, video	06/20	)20
	[3] "AggregaThor: Byzantine Machine Learning via Robust Gradient Aggregation" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, A. Guirguis, S. Rouault MLSys 2019 (Conference on Machine Learning and Systems), paper, code, video	05/20	)19
	[2] "Asynchronous Byzantine Machine Learning (the case of SGD)" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, R. Patra, M. Taziki	07/20	)18

ICML 2018 (International Conference on Machine Learning), paper, code

[1] "Capturing the Moment: Lightweight Similarity Computations"

G. Damaskinos, R. Guerraoui, R. Patra

ICDE 2017 (IEEE International Conference on Data Engineering), paper, code

## EXPERIENCE

Facebook, London, United Kingdom

Software Engineer

10/2020 - Present

Software Engineering Intern

06/2019 - 08/2019

Worked on the DELF paper [5] by mainly focusing on the performance evaluation. Implemented optimizations as a result of the visibility that this evaluation provided.

Language: Hack, SQL, Python

IBM, Zurich, Switzerland

Research Intern

06/2018 - 09/2018

Formally derived and implemented a differentially private optimization algorithm for generalized linear models, as part of the core algorithmic component of SnapML. The work continued at EPFL and led to [7].

Language: Python

Technicolor, Rennes, France

Research Intern

06/2017 - 08/2017

Designed and implemented a method to boost the evaluation of a new recommendation service by exploiting the output of a supposedly well-established online recommender, acting as a black-box that the new service can query. Published patent PCT/EP19/052345. The work continued at EPFL and led to [4].

Language: Python

Athens Clue, Athens, Greece

Web Developer

12/2014

Designed and implemented a web application for an escape room.

Language: JavaScript, HTML, CSS

High School Students, Athens, Greece

Tutor

03/2012 - 06/2015

Provided complementary mathematics, physics, and programming lectures to 8 students who either needed additional help or wanted to go beyond their school curriculum and perfect their skills.

AWARDS

## Best Paper Award, Middleware

12/2020

Best Teaching Assistant Award, EPFL

12/2019 11/2017

Runner-up for Best Internship Award, Technicolor EDIC PhD Fellowship, EPFL

04/2015

Thomaideio Award for the 3<sup>rd</sup> best performance among graduates, NTUA

Papakyriakopoulos Award for excellence in Mathematics, NTUA

2015 2011

PROFESSIONAL *Reviewer*: AAAI: [2022, 2021], ICLR 2022, NeurIPS: [2021, 2020 (top 10% reviewer)],

SERVICE

ICML: [2022, 2021 (expert reviewer), 2020 (top 33% reviewer), 2019], MLSys: 2019 (external)

Project mentor during PhD: 1 PhD semester, 1 MSc thesis, 5 MSc semester, 1 BSc semester, 1 intern

EPFL teaching assistant: Distributed algorithms CS-451 (2018, 2019),

Real-time systems CS-321 (2018, 2019), Analysis 1 MATH-101 (2016, 2017)

TECHNICAL

Programming: Python, Hack, Java, C, C++

SKILLS (MAIN) Frameworks/Tools: TensorFlow, Apache Spark, Android NDK, PyTorch

LANGUAGES

Greek: Native proficiency

English: Full professional proficiency (C2 - Michigan University ECPE)

German: Limited working proficiency (B1 - Goethe Zertifikat)

French: Elementary proficiency

05/2017