# Dimitris Koutsoukos
# Curriculum Vitae

## Contact Information

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| ⌂ | Office Address | STF H 322, Stampfenbachstrasse 114, 8092 Zurich |
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| ⊙ | Github | dkoutsou |

## Education

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|---|---|
| October 2019 – Present | PhD Candidate, Department of Computer Science, ETH Zurich |
| | Supervisors: Prof. Gustavo Alonso, Prof. Ana Klimovic |
| September 2017 – September 2019 | Master in Data Science, Department of Computer Science, ETH Zurich |
| | Thesis: Producing building blocks for data analytics |
| | Supervisor: Prof. Gustavo Alonso |
| October 2010 – February 2016 | Diploma of Electrical & Computer Engineering (MEng equivalent), National Technical University of Athens |
| | Thesis: Intelligent Techniques for Web Usage Mining |
| | Supervisor: Prof. Andreas Stafilopatis |

## Publications

How to use Persistent Memory in your Database, **D. Koutsoukos**, R. Bhartia, Ana Klimovic, Gustavo Alonso, Arxiv, 2021

Farview: Disaggregated Memory with Operator Off-loading for Database Engines, D. Korolija, **D. Koutsoukos**, Kimberly Keeton, Konstantin Taranov, Dejan Milojičić, Gustavo Alonso, CIDR 2022

Modularis: Modular Relational Analytics over Heterogeneous Distributed Platforms, **D. Koutsoukos**, I. Müller, R. Marroquín, A. Klimovic, G. Alonso, PVLDB 2022

Tensors: An abstraction for general data processing, **D. Koutsoukos**, S. Nakandala, K. Karanasos, K. Saur, G. Alonso, M. Interlandi, PVLDB 2021

The collection Virtual Machine: an abstraction for multi-frontend multi-backend data analysis, I. Müller, R. Marroquin, **D. Koutsoukos**, M. Wawrzoniak, S. Akhadov, G. Alonso, DaMoN 2020

Personalized, affect and performance-driven Computer-based Learning, C. Athanasiadis, E. Hortal, **D. Koutsoukos**, C. Z. Lens, S. Asteriadis, CSEDU 2017

A new approach to session identification by applying fuzzy c-means clustering on web logs, **D. Koutsoukos**, G. Alexandridis, G. Siolas, A. Stafylopatis, IEEE SSCI 2016

## Experience

**Data Engineer Intern – Meta, London, UK** (June 2022 – September 2022)

**Research Assistant – RAI Group, Department of Knowledge and Data Engineering (DKE), Maastricht University, Maastricht, Netherlands** (September 2016 – September 2017)

**Data Analyst/Software Engineer – orfium.com, Remote** (June 2016 – June 2017)

**Trainee (Software Developer) – Nokia Networks and Solutions, Athens Technology Center, Athens, Greece** (December 2015 – May 2016)

## Computer Skills

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| Programming Languages: | Python, C, C++, SQL |
| Deep Learning frameworks: | PyTorch |
| Big Data Tools: | Apache Spark |
| Virtualization Technologies: | Docker |
| Version Control: | Git |

## Teaching Experience

ETH Zurich

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|:---|:---|
| **Data Management Systems** (Head TA) | Winter semesters 2020, 2021 |
| **Cloud Computing Architecture** (Head TA) | Spring semester 2021 |
| **Data Modelling and Databases** | Spring semester 2020 |
| **Big Data** | Winter semester 2018 |

National Technical University of Athens

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| **Introduction to Programming** | Winter semesters 2011–2014 |
| **Programming Techniques** | Spring semesters 2012–2015 |
| **Operating Systems** | Winter semester 2014–2015 |