

Dimitrios Halatsis

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EDUCATION

Imperial College

PhD in Computing

London, UK

Jan. 2023 – Now

EPFL

MS in Computer Science: 5.22/6

Lausanne, Switzerland

Sep. 2020 – June 2022

University of Athens

BS in Computer Science and Telecommunications: 9.24/10 (valedictorian)

Athens, Greece

Oct. 2014 – June 2019

EXPERIENCE

PhD researcher

Imperial College

Jan. 2023 – Now

London, UK

- My tentative PhD research project is dedicated to able to process complex EMG signals from moving sources using representation learning techniques.

Master Thesis

EPFL

Feb. 2022 – Jun. 2022

Lausanne, Switzerland

- Research on deep learning and higher order neural networks.
- Theoretical arguments to support improved initialization scheme and architectures for higher order networks.
- Empirical evidence that supports the theoretical findings.

Semester Project (part-time)

EPFL

Feb. 2021 – Jun. 2021

Lausanne, Switzerland

- Worked on big data entities resolution problem.
- Developed and implemented algorithms to link speakers to entities.
- Ran benchmarks for recommendation methods on massive dataset of 20 years' worth of news.

Software Engineer

University of Athens

Oct. 2019 – Sep. 2020

Athens, Greece

- Worked on ExtremeEarth project, funded by EU's Horizon programme.
- Developed RDF database able to process queries involving terabytes of data.

Software Engineer

Flexcar

Mar. 2019 – Sep. 2019

Athens, Greece

- First hire of startup company to mainly work on company's technology.
- Developed company's site, sales tool and accounting tool that massively boosted sales productivity in the company's early stages.
- Assisted with company's strategic decisions and helped in securing a seed funding.
- Flexcar has received over 250 M of funding as of today.

Bachelor Thesis (part-time)

University of Athens

June. 2018 – March. 2019

Athens, Greece

- Worked on extending Facebook's Redex optimizer.
- Extended's Redex static information to use results from the stronger framework Doop.
- Higher accuracy analysis resulted in more optimization being possible.

DISTINCTIONS AND AWARDS

Winner of 3rd Cassini Hackathon

May 2022

European Cassini Hackathon

- Competed against approximately 100 teams across Europe.
- Implemented a computer vision based applications to automate road and trail mapping.
- Won 1st place amongst all teams in Europe.
- Contest's Site
- Our Site

Finalist at Sigmod 2018 programming Contest

June 2018

SIGMOD 2018

Houston, Texas

- Invited to attend Sigmod/Pods conference and awarded.
- Contest's Site
- Our Poster

TEACHING

Data Structures | *University of Athens*

Fall 2020

- Professor: Manolis Koubarakis
- Role: Teaching Assistant
- Presented assignments, graded them and attended Q/A sessions.

Database Systems | *University of Athens*

Fall 2019

- Professor: Yannis Ioannidis
- Role: Teaching Assistant
- Created assignments for students, presented them in classroom and graded the,.
- Organized and performed Q/A sessions.

Artificial Intelligence | *University of Athens*

Fall 2019

- Professor: Manolis Koubarakis
- Role: Teaching Assistant
- Presented assignments, graded them and attended Q/A sessions.

VOLUNTEERING

Student Volunteer

Oct. 2019

Splash 2019

Athens, Greece

- General Chair: Yannis Smaragdakis.
- Responsible for handling presentation equipment, gathering statistics about the conference and assisting with any problems that might arise.

RESEARCH INTERESTS

Theory: Deep learning, Polynomial Learning, Sublinear/Streaming Algorithms, Sparse Recovery.
Applications: Computer Vision applications, Privacy Preserving Machine Learning, Data Mining

COURSEWORK

Data Science: Machine learning, Statistics for data science, Applied data analysis, Mathematics of data.
Theory: Advanced algorithms, Sublinear algorithms for big data analysis, Distributed algorithms
Systems: Database systems, Information security and privacy

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, Scala, Prolog, Haskell
Frameworks: PyTorch, Tensorboard, Pandas, Scikit-Learn, SparkSQL, Spark ML
Tools: Git, Docker, Google Collab, AWS

LANGUAGES

English: C2
Greek: Native