

Konstantina Dritsa

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Research Interests

I am interested in all aspects of data science and applications of machine learning and deep learning, with a focus on deep learning models and methods that “understand” source code and predict its properties.

Education

Ph.D. Candidate in Machine Learning

Athens, Greece

ATHENS UNIVERSITY OF ECONOMICS & BUSINESS

01.2019 - Present

- Ph.D. Title: “*Extending and Applying Machine Learning Approaches in Different Contexts*”
- Academic Advisor: Asoc. Prof. Panagiotis Louridas

M.Sc. in Information Systems

Athens, Greece

ATHENS UNIVERSITY OF ECONOMICS & BUSINESS

10.2016 - 01.2018

- Master Thesis: “*Speech quality and sentiment analysis on the Hellenic Parliament proceedings*”
- Thesis Advisor: Asoc. Prof. Panagiotis Louridas

B.Sc. in Management Science & Technology

Athens, Greece

ATHENS UNIVERSITY OF ECONOMICS & BUSINESS

09.2011 - 07.2015

- B.Sc. Thesis: “*Scientific research on the history of Informatics in Greece from 1920 until today*”
- Thesis Advisor: Prof. Diomidis Spinellis

Professional Appointments

bloop.ai

London, UK (remote)

MACHINE LEARNING CONSULTANT

12.2021 – 02.2022

- Research consulting in the field of Information Retrieval for retrieving source code snippets based on natural language queries
- Development of a tool for benchmarking different pipelines of Information Retrieval

iMEDD.org

Athens, Greece

DATA SCIENTIST

03.2020 – 12.2020

- Creation of a dataset of the Greek Parliament proceedings and enrichment with extensive meta-data

Fantasy Travel

Athens, Greece

PYTHON DEVELOPER & CONTENT EDITOR

07.2014 – 04.2019

- Software development & data analysis with Python
- Debugging of in-house software tools
- Technological support & training of colleagues
- Management & update of multilingual websites with Joomla, Drupal, WordPress & Custom CMSs

Invited Talks

June 2020 “Introduction to Neural Networks & Deep Learning Frameworks”

GRNET, Athens, Greece

Skills

Programming	Python, \LaTeX , Java, SQL, JSON
Libraries/Frameworks	Pandas, NumPy, NLTK, Matplotlib, Scikit-learn, BeautifulSoup, Keras, PyTerrier, Requests, Flask
Tools	PyCharm, Jupyter Notebook, Colab, Spyder
Version Control	Git
CMS	Wordpress, Joomla, Drupal
SEO	SEO & SEM (Diploma code: 10056372 - Online "ClickMinded Courses", 07.2015)
Languages	Greek (<i>Native</i>) English (<i>Proficiency, 2009</i>) Chinese (<i>Elementary proficiency, 2009</i>)

Service

EXTERNAL REVIEWER

MSR MSR Technical Track: 2020

PCI Pan-Hellenic Conference on Informatics: 2021

Publications

CONFERENCE PUBLICATIONS

- C1 Georgios Nikitopoulos, **Konstantina Dritsa**, Panos Louridas, and Dimitris Mitropoulos, "CrossVul: a cross-language vulnerability dataset with commit data" In *Proceedings of the 29th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)*, New York, USA, August 2021.
- C2 **Konstantina Dritsa** & Thodoris Sotiropoulos, Haris Skarpetis, and Panos Louridas, "Search Engine Similarity Analysis: A Combined Content and Rankings Approach" In *Web Information Systems Engineering (WISE)*, Amsterdam, The Netherlands, October 2020.

JOURNAL PUBLICATIONS

- J1 Zoe Kotti, Konstantinos Kravaritis, **Konstantina Dritsa** and Diomidis Spinellis, "Standing on shoulders or feet? An extended study on the usage of the MSR data papers" In *Empirical Software Engineering (EMSE)*, May 2020.
- J2 **Konstantina Dritsa**, Dimitris Mitropoulos, and Diomidis Spinellis, "Aspects of the History of Computing in Modern Greece" In *IEEE Annals of the History of Computing*, May 2018.

Other activities

London AI4Code Meetup

London (Remote)

CO-ORGANIZER OF MONTHLY RESEARCH MEETUPS

3.2021 - Present

Co-organization of monthly meetups with researchers and academics from around the globe on the topic of AI applications on source code.

Co-organizers: Prof. Earl T. Barr (UCL), Gabriel Gordon-Hall (CTO @ bloop.ai)

Hellenic IT Museum

Athens, Greece

ADMINISTRATIVE ASSISTANT AT THE BOARD OF ADVISORS

09.2017 - Present

- Informing members and coordinating meetings
- Promotional responsibilities
- Event co-organization

Business Analytics Laboratory, Athens University of Economics and Business

Athens, Greece

RESEARCHER

10.2015 - Present

SPLASH 2019 Conference

STUDENT VOLUNTEER

Registration/information desk and poster session assistance.

*Athens, Greece**10.2019***SWEBOK V3.0**

TRANSLATOR

Greek translation of Chapter 10 “Software Quality” of SWEBOK V3.0
“IEEE Software Engineering Body of Knowledge”.*Athens, Greece**03.2014 - 04.2014***11th Student Congress of Management Science & Technology**

MEMBER OF THE ORGANIZING COMMITTEE

Participation in the Editorial, Promotion and Logistics teams.

*Athens, Greece**10.2013 - 05.2014*