

MARIOS A. PAPACHRISTOU

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| RESEARCH INTERESTS | Data Science, Machine Learning, Recommender Systems, Computational Law, Software Engineering, Algorithms |
| EDUCATION | <p>National Technical University of Athens 2015– (<i>expected graduation in 2020</i>) Diploma (5-year joint degree, 300 ECTS) Electrical & Computer Engineering (ECE)</p> <ul style="list-style-type: none">– <i>Current Cumulative GPA</i>: 9.38/10.00 (on transcript) – top 1%– <i>Expected Cumulative GPA</i> (on graduation): 9.60/10.00 (remainder of 8 courses and Thesis presentation)– <i>Major</i>: <u>Computer Science</u>– <i>Thesis</i>: “<i>Personalized Recommendations with Limited Information</i>”. <i>Working paper and thesis. Advisor: Dimitris Fotakis</i> <p>1st General Lyceum of Hymettus 2012–2015 Apolytirion, Valedictorian, GPA: 19.8/20.0, top 2% in National Exams (18,971/20,000)</p> |
| PUBLICATIONS [GOOGLESCHOLAR] | <ol style="list-style-type: none">1. Papachristou, Marios. “Software clusterings with vector semantics and the call graph.” ESEC/FSE 2019. DOI: 10.1145/3338906.3342483. [link]2. Kostakis, Vasilis, and Papachristou, Marios. “Commons-based peer production and digital fabrication: The case of a RepRap-based, Lego-built 3D printing-milling machine.” T&I, 2014. DOI: 10.1016/j.tele.2013.09.006. [link] |
| WORKING PAPERS | <ol style="list-style-type: none">1. Learning User Interests from Influencers in Online Social Networks. <i>Working paper. To be submitted</i>2. SalSAGAN: Spatio-Temporal Modeling via Transfer Learning for Video Saliency Estimation using Generative Adversarial Networks. <i>Early stage work.</i> |
| RESEARCH EXPERIENCE | <p>Business Analytics Lab (Undergraduate Researcher) August 2018 –</p> <ul style="list-style-type: none">– Conduct research on Machine Learning on Software Engineering<ul style="list-style-type: none">– Source Code Embeddings– Software Clustering– Layering Violations– Research funded by the CROSSMINER project, supported by <i>Horizon 2020</i> grant <p>Hellenic Center for Marine Research June 2014 – August 2014</p> <ul style="list-style-type: none">– Develop a system for marine species identification and morphometric analysis using features and ORB, SIFT and SURF descriptors in OpenCV [repository] <p>P2P Lab (Remote Research Associate) 2013–2014</p> <ul style="list-style-type: none">– Publish self-made Lego 3D Printing-Milling machine at age 16 with Prof. Vasilis Kostakis [repository] |
| PROFESSIONAL EXPERIENCE | <p>Google Summer of Code (Summer Internship) April 2018–September 2018</p> <ul style="list-style-type: none">– Developed a fully functional project for text mining, cross-linking and automated codification of Greek Legislation using Natural Language Processing Methods and Practices. Project is hosted at 3gm.ellak.gr [repository]<ul style="list-style-type: none">– Cross-linking into Dynamic Graphs– Automated Codification– Custom Version Control System– Topic Modeling– Embeddings– Ranking (PageRank)– Language Modeling and Legal Text Generation with DNNs– Greek Legislative Texts Internet Archive Collection [link]– Project is in active development and receives funding |

- Supervise graduate student for Google Summer of Code 2019

Ratle (Co-founder)

October 2017–October 2018

- Bluetooth Signal Denoising with Kalman Filters
- Product tracking inside stores
- Enterprise application for Business Analytics
- Tested at real stores [video]

TEACHING ASSISTANTSHIP EXPERIENCE

Undergraduate Teaching Assistant

- Discrete Mathematics (4th Semester) *Spring 2017*
- Programming Techniques (2nd Semester) *Spring 2016*
- Introduction to Computer Programming (1st Semester) *Fall 2016, Fall 2017*

LANGUAGES

Greek (Native), English (C2), German (B1)

TECHNICAL SKILLS

Programming Languages Python, C/C++, Java, JavaScript/TypeScript, Bash, OCaml, PHP, R, SQL
Machine Learning Frameworks PyTorch, Pyro, Tensorflow Keras, Sklearn, spaCy
Data Analysis and Visualization matplotlib, MATLAB, pandas, Bash
Scientific Programming SAGE, Octave, MATLAB, Scilab, NumPy, SciPy, OpenCV, NetworkX
Databases MySQL, MongoDB, PostgreSQL, Firebase
Version Control Git, Subversion

HONORS & AWARDS

- Programming Competition *IEEEExtreme 12.0*. Ranked 48th out of 4,000 World-wide (top 1%), 1st in Greece, 13th in Europe (PComplete Team)
- 4th (out of 93) Place in *International Space Engineering Competition at Texas* (CanSat) organized by NASA Goddard and the American Astronautical Society
- 1st Award at “*Crowdhackathon Fintech #2*” for developing a cashierless system for retail shops to eliminate queues by National Bank of Greece
- 2nd Award at the “*be finnovative 2.0 accelerator*” for developing a cashierless system for retail shops to eliminate queues by National Bank of Greece
- ESEC/FSE 2019 ACM Student Research Competition Finalist
- 2nd Place at the “*ECESCON9*” Hackathon
- “*Touramanoglu*” Scholarship by Municipality of Helioupolis & Hymettus
- “*The Great Moment of Education*” Scholarship by Eurobank EFG

VOLUNTEERING

- Teaching algorithms courses in National Competition for Informatics Camp
- Google Summer of Code Mentor
- Member of TEDx NTUA 2018 Organizing Committee, IT Team
- Member of Greek Free and Open-Source Software Organization GFOSS-OTA

REFERENCES AVAILABLE UPON REQUEST

Dimitris Fotakis (Assoc. Professor at NTUA, Thesis Advisor, fotakis@cs.ntua.gr)
 Diomidis Spinellis (Professor at AUEB, ex: Google, ex: GSIS SG, dds@aub.gr)
 Nectarios Koziris (Prof. at NTUA, nkoziris@cslab.ece.ntua.gr)
 Vasilis Kostakis (Prof. at TalTech, Harvard BKC, P2P Lab, kostakis@law.harvard.edu)

HOBBIES

Cycling, Bike Restoration, Competitive Programming, Basketball, Reading, Drama