

## MARIOS A. PAPACHRISTOU

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RESEARCH INTERESTS	Data Science, Machine Learning, Recommender Systems, Computational Law, Software Engineering, Algorithms
EDUCATION	<p><b>National Technical University of Athens</b> 2015– (<i>expected graduation in 2020</i>) Diploma (5-year joint degree, 300 ECTS) Electrical &amp; Computer Engineering (ECE) – <i>Current Cumulative GPA</i>: 9.38/10.00 (on transcript) – <b>top 1%</b> – <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> <p><b>1st General Lyceum of Hymettus</b> 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"><li>1. <b>Papachristou, Marios</b>. “Software clusterings with vector semantics and the call graph.” ESEC/FSE 2019. DOI: 10.1145/3338906.3342483. [link]</li><li>2. Kostakis, Vasilis, and <b>Papachristou, Marios</b>. “Commons-based peer production and digital fabrication: The case of a RepRap-based, Lego-built 3D printing-milling machine.” T&amp;I, 2014. DOI: 10.1016/j.tele.2013.09.006. [link]</li></ol>
WORKING PAPERS	<ol style="list-style-type: none"><li>1. Learning User Interests from Influencers in Online Social Networks. <i>Working paper. To be submitted</i></li></ol>
RESEARCH EXPERIENCE	<p><b>Business Analytics Lab (Undergraduate Researcher)</b> August 2018 – – Conduct research on Machine Learning on Software Engineering – Source Code Embeddings – Software Clustering – Layering Violations – Research funded by the CROSSMINER project, supported by <i>Horizon 2020</i> grant</p> <p><b>Hellenic Center for Marine Research</b> June 2014 – August 2014 – Develop a system for marine species identification and morphometric analysis using features and ORB, SIFT and SURF descriptors in OpenCV [repository]</p> <p><b>P2P Lab (Remote Research Associate)</b> 2013–2014 – Publish self-made Lego 3D Printing-Milling machine at age 16 with Prof. Vasilis Kostakis [repository]</p>
PROFESSIONAL EXPERIENCE	<p><b>Google Summer of Code (Summer Internship)</b> April 2018–September 2018 – 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 <a href="#">3gm.ellak.gr</a> [repository] – 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</p> <p><b>Ratle (Co-founder)</b> October 2017–October 2018</p>

	<ul style="list-style-type: none"> <li>– Bluetooth Signal Denoising with Kalman Filters</li> <li>– Product tracking inside stores</li> <li>– Enterprise application for Business Analytics</li> <li>– Tested at real stores [video]</li> </ul>
TEACHING ASSISTANTSHIP EXPERIENCE	<b>Undergraduate Teaching Assistant</b> <ul style="list-style-type: none"> <li>– Discrete Mathematics (4th Semester) <i>Spring 2017</i></li> <li>– Programming Techniques (2nd Semester) <i>Spring 2016</i></li> <li>– Introduction to Computer Programming (1st Semester) <i>Fall 2016, Fall 2017</i></li> </ul>
LANGUAGES	Greek (Native), English (C2), German (B1)
TECHNICAL SKILLS	<b>Programming Languages</b> Python, C/C++, Java, JavaScript/TypeScript, Bash, OCaml, PHP, R, SQL <b>Machine Learning Frameworks</b> PyTorch, Pyro, Tensorflow Keras, Sklearn, spaCy <b>Data Analysis and Visualization</b> matplotlib, MATLAB, pandas, Bash <b>Scientific Programming</b> SAGE, Octave, MATLAB, Scilab, NumPy, SciPy, OpenCV, NetworkX <b>Databases</b> MySQL, MongoDB, PostgreSQL, Firebase <b>Version Control</b> Git, Subversion
HONORS & AWARDS	<ul style="list-style-type: none"> <li>– Programming Competition <i>IEEEExtreme 12.0</i>. Ranked 48th out of 4,000 World-wide (top 1%), 1st in Greece, 13th in Europe (PComplete Team)</li> <li>– 4th (out of 93) Place in <i>International Space Engineering Competition at Texas</i> (CanSat) organized by NASA Goddard and the American Astronautical Society</li> <li>– 1st Award at “<i>Crowdhackathon Fintech #2</i>” for developing a cashierless system for retail shops to eliminate queues by National Bank of Greece</li> <li>– 2nd Award at the “<i>be finnovative 2.0 accelerator</i>” for developing a cashierless system for retail shops to eliminate queues by National Bank of Greece</li> <li>– ESEC/FSE 2019 ACM Student Research Competition Finalist</li> <li>– 2nd Place at the “<i>ECESCON9</i>” Hackathon</li> <li>– “<i>Touramanoglu</i>” Scholarship by Municipality of Helioupolis &amp; Hymettus</li> <li>– “<i>The Great Moment of Education</i>” Scholarship by Eurobank EFG</li> </ul>
MEMBERSHIPS	IEEE Member, ACM Member
VOLUNTEERING	<ul style="list-style-type: none"> <li>– Teaching algorithms courses in National Competition for Informatics Camp</li> <li>– Google Summer of Code Mentor</li> <li>– Member of TEDx NTUA 2018 Organizing Committee, IT Team</li> <li>– Contributor to open-source projects</li> <li>– Member of Greek Free and Open-Source Software Organization GFOSS-OTA</li> <li>– Voluntary Blood Donor</li> </ul>
REFERENCES AVAILABLE UPON REQUEST	Dimitris Fotakis (Assoc. Professor at NTUA, Thesis Advisor, <a href="mailto:fotakis@cs.ntua.gr">fotakis@cs.ntua.gr</a> ) Diomidis Spinellis (Professor at AUEB, ex: Google, ex: GSIS SG, <a href="mailto:dds@aueb.gr">dds@aueb.gr</a> ) Nectarios Koziris (Prof. at NTUA, <a href="mailto:nkoziris@cslab.ece.ntua.gr">nkoziris@cslab.ece.ntua.gr</a> ) Vasilis Kostakis (Prof. at TalTech, Harvard BKC, P2P Lab, <a href="mailto:kostakis@law.harvard.edu">kostakis@law.harvard.edu</a> )
HOBBIES	Cycling, Bike Restoration, Competitive Programming, Basketball, Reading, Drama