
MARIOS A. PAPACHRISTOU (Last Updated: June 3, 2022)

CONTACT INFORMATION	E-mail GitHub Office Google Scholar Twitter	papachristoumarios@cs.cornell.edu papachristoumarios 302 Gates Hall, Cornell University [profile] @papachristoum
INTERESTS	<i>Areas:</i> Social and Information Networks, Machine Learning, Data Mining, Algorithms <i>Focuses:</i> Statistical Modeling of Networks, Financial Networks, Graph ML	
EDUCATION	Cornell University 2020 – exp. 2026 Ph.D. in Computer Science (<i>GPA: 4.0/4.0</i>), Minor: <i>Applied Math</i> – <i>Advisor:</i> Jon Kleinberg, <i>Committee:</i> Jon Kleinberg, Emma Pierson, Sid Banerjee – <i>Relevant Coursework:</i> Analysis of Algorithms, Information Networks, Numerical Methods for Data Science, Design of Online Marketplaces, ML Theory M.S. in Computer Science, Minor: <i>Applied Math (GPA: 4.0/4.0)</i> 2020–2022 National Technical University of Athens 2015–2020 Diploma in ECE (<i>GPA: 9.49/10.00</i>). Major: <i>Computer Science</i> . – <i>Thesis:</i> “Stochastic Opinion Dynamics for Interest Prediction in Online Social Networks”. <i>Advisor:</i> Dimitris Fotakis.	
PUBLICATIONS	<ol style="list-style-type: none">1. Papachristou, Marios, Banerjee, Sid, and Kleinberg, Jon. “Dynamic Interventions for Networked Contagions”. <i>Under review</i>, 2022. [preprint] [code]2. Papachristou, Marios, and Kleinberg, Jon. “Core-periphery Models for Hypergraphs”. 2022, <i>KDD 2022</i>. [paper] [code] [data]3. Papachristou, Marios, and Kleinberg, Jon. “Allocating Stimulus Checks in Times of Crisis”. <i>WWW 2022</i>. [preprint] [code] [paper] [talk] [slides]4. Papachristou, Marios. “Sublinear Domination and Core-periphery Networks”. <i>Scientific Reports (Nature)</i>, 2021. [paper] [code]5. ^{$\alpha\beta$}Chalkis, Apostolos, Fisikopoulos Vissarion, Papachristou, Marios, and Tsigaridas, Elias. “Truncated Log-concave Sampling with Reflective Hamiltonian Monte Carlo”. <i>Preprint</i>, 2021. [preprint] [code]6. Papachristou, Marios, and Fotakis, Dimitris. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. <i>Preprint</i>, 2020. [preprint]7. Papachristou, Marios. “Software clusterings with vector semantics and the call graph”. <i>ESEC/FSE 2019</i>. [paper] [code] [data] (<i>Student Research Competition Finalist Paper</i>)8. Kostakis, Vasilis, and Papachristou, Marios. “Commons-based peer production and digital fabrication: The case of a RepRap-based, Lego-built 3D printing-milling machine”. <i>Telematics and Informatics</i>, 2014. [paper]	
	$\alpha\beta$ = alphabetical order, * = equal contribution	
RESEARCH EXPERIENCE	Twitter Cortex (Research Internship) – Research on Graph ML on the UMR team.	May 2022 – August 2022
	Cornell University (Graduate Research Assistant)	May 2021 –

	GeomScale Organization	<i>May 2019 –</i>
	– Part-time research on sampling from truncated log-concave densities, and convex optimization, working on the volesti open-source package.	
	Business Analytics Lab (Undergraduate Researcher)	<i>2018 – 2020</i>
	– <i>Project: SADE.</i> Architecture recovery via call graphs, source code embeddings, and clustering methods.	
	Hellenic Center for Marine Research	<i>June 2014 – August 2014</i>
	P2P Lab (Remote Research Associate)	<i>2013–2014</i>
PROFESSIONAL EXPERIENCE	Google Summer of Code 2020 (GeomScale)	<i>June 2020– August 2020</i>
	– <i>Project: Sampling from high-dimensional truncated log-concave densities.</i> [code] [talk1] [talk2]	
	Google Summer of Code 2018 (GFOSS-OTA)	<i>April 2018–September 2018</i>
	– <i>Project: 3gm.</i> Automated codification of Greek Legislation. [code] [data] [talk]	
	Ratle (Co-founder)	<i>October 2017–October 2018</i>
TEACHING	Undergraduate Teaching Assistant (NTUA)	
	– Discrete Mathematics (4th Semester)	<i>Spring 2017</i>
	– Programming Techniques (2nd Semester)	<i>Spring 2016</i>
	– Introduction to Computer Programming (1st Semester)	<i>Fall 2016, Fall 2017</i>
HONORS & AWARDS	– LinkedIn Ph.D. Fellowship	<i>2022</i>
	– Chateaubriand Fellowship (<i>declined</i>)	<i>2022</i>
	– Cornell Fellowship	<i>2020</i>
	– Thomaidion Award	<i>2019</i>
	– ESEC/FSE 2019 ACM Student Research Competition Finalist	<i>2019</i>
	– 4th (out of 93) in International Space Engineering Competition (CanSat)	<i>2019</i>
	– 2nd Award at the “ <i>be finnovative 2.0 accelerator</i> ”	<i>2018</i>
	– 1st Award at “ <i>Crowdhackathon Fintech #2</i> ”	<i>2017</i>
	– Top %1 worldwide in IEEEExtreme 12.0 Programming Competition	<i>2017</i>
	– Touramanoglu Scholarship	<i>2015</i>
	– “The Great Moment of Education” Scholarship	<i>2015</i>
ACADEMIC SERVICE	– <i>Program Committee.</i> FAccT ‘22	
	– <i>Reviewer.</i> JOSS , WHMD@NeurIPS ‘21 , OR Spectrum	
	– <i>Mentor.</i> Google Summer of Code Mentor	
	◦ GeomScale organization	<i>2021, 2022</i>
	◦ GFOSS-OTA	<i>2019</i>