

CONTACT INFORMATION	E-mail	papachristoumarios@cs.cornell.edu
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	Office	302 Gates Hall, Cornell University, 107 Hoy Rd
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AREAS	Machine Learning, Data Mining, Algorithms, Social and Information Networks	
EDUCATION	Cornell University	2020 – exp. 2026
	Ph.D. Candidate 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	
PUBLICATIONS	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.	
	1. Marios Papachristou , Rishab Goel, Frank Portman, Matt Miller, Rong Jin. “GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs”. <i>Under Review</i> , 2022.	
	2. Marios Papachristou , Sid Banerjee, Jon Kleinberg. “Dynamic Interventions for Networked Contagions”. <i>EAAMO 2022 (poster)</i> . [preprint] [code] [poster]	
	3. Marios Papachristou , Jon Kleinberg. “Core-periphery Models for Hypergraphs”. <i>KDD 2022</i> . [paper] [code] [data] [slides] [poster]	
	4. Marios Papachristou , Jon Kleinberg. “Allocating Stimulus Checks in Times of Crisis”. <i>WWW 2022</i> . [preprint] [code] [paper] [talk] [slides]	
	5. Marios Papachristou . “Sublinear Domination and Core-periphery Networks”. <i>Scientific Reports (Nature)</i> , 2021. [paper] [code]	
	6. ^{$\alpha\beta$} Apostolos Chalkis, Vissarion Fisikopoulos, Marios Papachristou , Elias Tsigaridas. “Truncated Log-concave Sampling with Reflective Hamiltonian Monte Carlo”. <i>Under Review</i> , 2021. [preprint] [code]	
	7. Marios Papachristou , Dimitris Fotakis. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. <i>Preprint</i> , 2020. [preprint]	
	8. Marios Papachristou . “Software clusterings with vector semantics and the call graph”. <i>ESEC/FSE 2019</i> . [paper] [code] [data] (<i>ESEC/FSE Student Research Competition Finalist Paper</i>)	
	9. Vasilis Kostakis*, and Marios Papachristou* . “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]	

RESEARCH EXPERIENCE	Twitter Cortex (Research Internship)	<i>May 2022 – August 2022</i>
	– Research on <i>scalable machine learning on graphs</i> . Development of a simple scalable method for node classification in homophilous and heterophilous graphs.	
	Cornell University (Graduate Research Assistant)	<i>May 2021 –</i>
	– Thesis research. Advisor: Jon Kleinberg.	
	GeomScale Organization	<i>May 2020 –</i>
PROFESSIONAL EXPERIENCE	– 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>
	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]	
	Rattle (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 (14.8% acceptance rate)	<i>2022</i>
	– A.G. Leventis Scholarship (12.5% acceptance rate)	<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 11.0 Programming Competition	<i>2017</i>
	– Touramanoglu Scholarship	<i>2015</i>
	– “The Great Moment of Education” Scholarship	<i>2015</i>
SERVICE	– <i>Program Committee.</i> FAccT ‘22	
	– <i>Reviewer.</i> GLFrontiers@NeurIPS ‘22 , JOSS , WHMD@NeurIPS ‘21 , OR Spectrum	
	– <i>Mentorship.</i>	
	◦ Google Summer of Code	<i>2019–</i>
	◦ Cornell Unvergraduate Artificial Intelligence Group	<i>2022–</i>