

CONTACT INFORMATION	E-mail	<a href="mailto:papachristoumarios@cs.cornell.edu">papachristoumarios@cs.cornell.edu</a>
	GitHub	<a href="#">papachristoumarios</a>
	Office	302 Gates Hall, Cornell University, 107 Hoy Rd
	Google Scholar	<a href="#">[profile]</a>
	Twitter	<a href="#">@papachristoum</a>
	Website	<a href="#">papachristoumarios.github.io</a>
AREAS	Machine Learning, Data Mining, Algorithms, Social and Information Networks	
EDUCATION	<b>Cornell University</b>	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>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>	
EDUCATION	<b>National Technical University of Athens</b>	2015–2020
	Diploma in ECE ( <i>GPA: 9.49/10.00</i> ). Major: <i>Computer Science</i> .	
	– <i>Advisor</i> : Dimitris Fotakis	
PUBLICATIONS	1. <b>Marios Papachristou</b> , Amin Rahimian. “Cascading Failures, Power laws and Resiliency of Production Networks”. <i>Under review</i> . 2023.	
	2. <b>Marios Papachristou</b> , Sid Banerjee, Jon Kleinberg. “Dynamic Interventions for Networked Contagions”. <i>WWW 2023</i> . <a href="#">[preprint]</a> <a href="#">[code]</a> <a href="#">[poster]</a>	
	3. <b>Marios Papachristou</b> , Rishab Goel, Frank Portman, Matt Miller, Rong Jin. “GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs”. <i>NeurIPS workshop on Graph Learning Frontiers (GLFrontiers)</i> , 2022. <a href="#">[preprint]</a> <a href="#">[poster]</a> <a href="#">[workshop]</a>	
	4. <b>Marios Papachristou</b> , Jon Kleinberg. “Core-periphery Models for Hypergraphs”. <i>KDD 2022</i> . <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[data]</a> <a href="#">[slides]</a> <a href="#">[poster]</a>	
	5. <b>Marios Papachristou</b> , Jon Kleinberg. “Allocating Stimulus Checks in Times of Crisis”. <i>WWW 2022</i> . <a href="#">[preprint]</a> <a href="#">[code]</a> <a href="#">[paper]</a> <a href="#">[talk]</a> <a href="#">[slides]</a>	
	6. <b>Marios Papachristou</b> . “Sublinear Domination and Core-periphery Networks”. <i>Scientific Reports (Nature)</i> , 2021. <a href="#">[paper]</a> <a href="#">[code]</a>	
	7. $\alpha\beta$ Apostolos Chalkis, Vissarion Fisikopoulos, <b>Marios Papachristou</b> , Elias Tsigaridas. “Truncated Log-concave Sampling with Reflective Hamiltonian Monte Carlo”. <i>Minor Revision at the ACM Transactions on Mathematical Software</i> , 2021. <a href="#">[preprint]</a> <a href="#">[code]</a>	
	8. <b>Marios Papachristou</b> , Dimitris Fotakis. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. <i>Preprint</i> , 2020. <a href="#">[preprint]</a>	
	9. <b>Marios Papachristou</b> . “Software clusterings with vector semantics and the call graph”. <i>ESEC/FSE 2019</i> . <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[data]</a> ( <i>ESEC/FSE Student Research Competition Finalist Paper</i> )	
	10. Vasilis Kostakis*, and <b>Marios Papachristou*</b> . “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. <a href="#">[paper]</a>	

$\alpha\beta$  = alphabetical order, \* = equal contribution

RESEARCH  
EXPERIENCE

**Twitter Cortex (Research Internship)** *May 2022 – August 2022*  
– Research on *scalable machine learning on graphs*. Development of a simple scalable method for node classification in homophilous and heterophilous graphs. Paper and US patent submitted.

**Cornell University (Graduate Research Assistant)** *May 2021 –*  
– Thesis research. Advisor: Jon Kleinberg.

**GeomScale Organization** *May 2020 –*  
– 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)** *2018 – 2020*  
– *Project: SADE*. Architecture recovery via call graphs, source code embeddings, and clustering methods.

**Hellenic Center for Marine Research** *June 2014 – August 2014*

**P2P Lab (Remote Research Associate)** *2013–2014*

OTHER  
EXPERIENCE

**Google Summer of Code 2020 (GeomScale)** *June 2020– August 2020*  
– *Project: Sampling from high-dimensional truncated log-concave densities.*  
[\[code\]](#) [\[talk1\]](#) [\[talk2\]](#)

**Google Summer of Code 2018 (GFOSS-OTA)** *April 2018–September 2018*  
– *Project: 3gm*. Automated codification of Greek Legislation.  
[\[code\]](#) [\[data\]](#) [\[talk\]](#)

**Ratle (Co-founder)** *October 2017–October 2018*

TEACHING  
ASSISTANTSHIPS

– The Structure of Information Networks (PhD-level, Cornell) *Spring 2023*  
– Discrete Mathematics (NTUA) *Spring 2017*  
– Programming Techniques (NTUA) *Spring 2016*  
– Introduction to Computer Programming (NTUA) *Fall 2016, Fall 2017*

HONORS &  
AWARDS

– LinkedIn Ph.D. Fellowship (14.8% acceptance rate) *2022*  
– Gerondelis Scholarship *2022*  
– A.G. Leventis Scholarship (12.5% acceptance rate) *2022*  
– Chateaubriand Fellowship (*declined*) *2022*  
– Cornell Fellowship *2020*  
– Thomaidion Award *2019*  
– ESEC/FSE 2019 ACM Student Research Competition Finalist *2019*  
– 4th (out of 93) in International Space Engineering Competition (CanSat) *2019*  
– 2nd Award at the “*be finnovative 2.0 accelerator*” *2018*  
– 1st Award at “*Crowdhackathon Fintech #2*” *2017*  
– Top %1 worldwide in IEEEExtreme 11.0 Programming Competition *2017*  
– Touramanoglu Scholarship *2015*  
– “The Great Moment of Education” Scholarship *2015*

SERVICE

– *Program Committee*. [FAccT ‘22](#)  
– *Reviewer*. [KDD ‘23](#), [ECML-PKDD ‘23](#), [GLFrontiers@NeurIPS ‘22](#), [JOSS](#), [WHMD@NeurIPS ‘21](#), [OR Spectrum](#), [Machine Learning](#)  
– *Mentorship*: Google Summer of Code (2019–), Cornell Undergraduate AI Group (2022–), Student-applicant support program at Cornell CS (2022).