
MARIOS A. PAPACHRISTOU (Last Updated: September 19, 2022)

CONTACT INFORMATION E-mail papachristoumarios@cs.cornell.edu
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INTERESTS *Areas:* Social and Information Networks, Machine Learning, Data Mining, Algorithms
Foci: Statistical Modeling of Networks, Financial Networks, Graph ML

EDUCATION **Cornell University** 2020 – exp. 2026
Ph.D. in Computer Science (*GPA: 4.0/4.0*), Minor: *Applied Math*
– *Advisor:* Jon Kleinberg, *Committee:* Jon Kleinberg, Emma Pierson, Sid Banerjee
– *Relevant Coursework:* Analysis of Algorithms, Information Networks, Numerical Methods for Data Science, Design of Online Marketplaces, ML Theory

M.S. in Computer Science, Minor: *Applied Math (GPA: 4.0/4.0)* 2020–2022

National Technical University of Athens 2015–2020
Diploma in ECE (*GPA: 9.49/10.00*). Major: *Computer Science*.
– *Thesis:* “Stochastic Opinion Dynamics for Interest Prediction in Online Social Networks”. *Advisor:* Dimitris Fotakis.

- PUBLICATIONS
1. **Papachristou, Marios**, Banerjee, Sid, and Kleinberg, Jon. “Dynamic Interventions for Networked Contagions”. *EAAMO 2022 (poster)*.
[\[preprint\]](#) [\[code\]](#) [\[poster\]](#)
 2. **Papachristou, Marios**, and Kleinberg, Jon. “Core-periphery Models for Hypergraphs”. *KDD 2022*.
[\[paper\]](#) [\[code\]](#) [\[data\]](#) [\[slides\]](#) [\[poster\]](#)
 3. **Papachristou, Marios**, and Kleinberg, Jon. “Allocating Stimulus Checks in Times of Crisis”. *WWW 2022*.
[\[preprint\]](#) [\[code\]](#) [\[paper\]](#) [\[talk\]](#) [\[slides\]](#)
 4. **Papachristou, Marios**. “Sublinear Domination and Core-periphery Networks”. *Scientific Reports (Nature)*, 2021.
[\[paper\]](#) [\[code\]](#)
 5. ^{$\alpha\beta$} Chalkis, Apostolos, Fisikopoulos Vissarion, **Papachristou, Marios**, and Tsigaridas, Elias. “Truncated Log-concave Sampling with Reflective Hamiltonian Monte Carlo”. *Preprint*, 2021.
[\[preprint\]](#) [\[code\]](#)
 6. **Papachristou, Marios**, and Fotakis, Dimitris. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. *Preprint*, 2020.
[\[preprint\]](#)
 7. **Papachristou, Marios**. “Software clusterings with vector semantics and the call graph”. *ESEC/FSE 2019*.
[\[paper\]](#) [\[code\]](#) [\[data\]](#) (*ESEC/FSE Student Research Competition Finalist Paper*)
 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”. *Telematics and Informatics*, 2014.
[\[paper\]](#)

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

RESEARCH EXPERIENCE **Twitter Cortex (Research Internship)** May 2022 – August 2022
– Research on scalable Graph Machine Learning.

	Cornell University (Graduate Research Assistant)	<i>May 2021 –</i>
	GeomScale Organization	<i>May 2020 –</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>
	– A.G. Leventis Scholarship	<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> 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>