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MARIOS A. PAPACHRISTOU (Last Updated: July 26, 2022)

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CONTACT INFORMATION	E-mail GitHub Office Google Scholar Twitter	<a href="mailto:papachristoumarios@cs.cornell.edu">papachristoumarios@cs.cornell.edu</a> <a href="#">papachristoumarios</a> 302 Gates Hall, Cornell University <a href="#">[profile]</a> <a href="#">@papachristoum</a>
INTERESTS	<i>Areas:</i> Social and Information Networks, Machine Learning, Data Mining, Algorithms <i>Foci:</i> Statistical Modeling of Networks, Financial Networks, Graph ML	
EDUCATION	<b>Cornell University</b> <span style="float: right;"><i>2020 – exp. 2026</i></span> 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> <span style="float: right;"><i>2020–2022</i></span>  <b>National Technical University of Athens</b> <span style="float: right;"><i>2015–2020</i></span> 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"><li>1. <b>Papachristou, Marios</b>, Banerjee, Sid, and Kleinberg, Jon. “Dynamic Interventions for Networked Contagions”. <i>EAAMO 2022 (poster)</i>. <a href="#">[preprint]</a> <a href="#">[code]</a></li><li>2. <b>Papachristou, Marios</b>, and Kleinberg, Jon. “Core-periphery Models for Hypergraphs”. <i>KDD 2022</i>. <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[data]</a></li><li>3. <b>Papachristou, Marios</b>, and Kleinberg, Jon. “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></li><li>4. <b>Papachristou, Marios</b>. “Sublinear Domination and Core-periphery Networks”. <i>Scientific Reports (Nature)</i>, 2021. <a href="#">[paper]</a> <a href="#">[code]</a></li><li>5. <sup><math>\alpha\beta</math></sup>Chalkis, Apostolos, Fisikopoulos Vissarion, <b>Papachristou, Marios</b>, and Tsigaridas, Elias. “Truncated Log-concave Sampling with Reflective Hamiltonian Monte Carlo”. <i>Preprint</i>, 2021. <a href="#">[preprint]</a> <a href="#">[code]</a></li><li>6. <b>Papachristou, Marios</b>, and Fotakis, Dimitris. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. <i>Preprint</i>, 2020. <a href="#">[preprint]</a></li><li>7. <b>Papachristou, Marios</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>Student Research Competition Finalist Paper</i>)</li><li>8. 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”. <i>Telematics and Informatics</i>, 2014. <a href="#">[paper]</a></li></ol>	
	$\alpha\beta$ = alphabetical order, * = equal contribution	
RESEARCH EXPERIENCE	<b>Twitter Cortex (Research Internship)</b> – Research on Graph ML on the UMR team.	<i>May 2022 – August 2022</i>
	<b>Cornell University (Graduate Research Assistant)</b>	<i>May 2021 –</i>

	<b>GeomScale Organization</b>	<i>May 2020 –</i>
	– Part-time research on sampling from truncated log-concave densities, and convex optimization, working on the <a href="#">volesti</a> open-source package.	
	<b>Business Analytics Lab (Undergraduate Researcher)</b>	<i>2018 – 2020</i>
	– <i>Project: SADE.</i> Architecture recovery via call graphs, source code embeddings, and clustering methods.	
	<b>Hellenic Center for Marine Research</b>	<i>June 2014 – August 2014</i>
	<b>P2P Lab (Remote Research Associate)</b>	<i>2013–2014</i>
PROFESSIONAL EXPERIENCE	<b>Google Summer of Code 2020 (GeomScale)</b>	<i>June 2020– August 2020</i>
	– <i>Project: Sampling from high-dimensional truncated log-concave densities.</i> <a href="#">[code]</a> <a href="#">[talk1]</a> <a href="#">[talk2]</a>	
	<b>Google Summer of Code 2018 (GFOSS-OTA)</b>	<i>April 2018–September 2018</i>
	– <i>Project: 3gm.</i> Automated codification of Greek Legislation. <a href="#">[code]</a> <a href="#">[data]</a> <a href="#">[talk]</a>	
	<b>Rattle (Co-founder)</b>	<i>October 2017–October 2018</i>
TEACHING	<b>Undergraduate Teaching Assistant (NTUA)</b>	
	– 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 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> <a href="#">FAccT ‘22</a>	
	– <i>Reviewer.</i> <a href="#">JOSS</a> , <a href="#">WHMD@NeurIPS ‘21</a> , <a href="#">OR Spectrum</a>	
	– <i>Mentor.</i> Google Summer of Code Mentor	
	◦ GeomScale organization	<i>2021, 2022</i>
	◦ GFOSS-OTA	<i>2019</i>