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MARIOS A. PAPACHRISTOU (Last Updated: July 21, 2022)

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CONTACT INFORMATION      E-mail      [papachristoumarios@cs.cornell.edu](mailto:papachristoumarios@cs.cornell.edu)  
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Office      302 Gates Hall, Cornell University  
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Twitter      [@papachristoum](#)

INTERESTS      *Areas:* Social and Information Networks, Machine Learning, Data Mining, Algorithms  
*Focuses:* 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)*.  
[\[preprint\]](#) [\[code\]](#)
  2. **Papachristou, Marios**, and Kleinberg, Jon. “Core-periphery Models for Hypergraphs”. *KDD 2022*.  
[\[paper\]](#) [\[code\]](#) [\[data\]](#)
  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.  <sup>$\alpha\beta$</sup> 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*.  
[\[paper\]](#) [\[code\]](#) [\[data\]](#) (*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.  
[\[paper\]](#)

<sup>$\alpha\beta$</sup> = alphabetical order, \* = equal contribution

RESEARCH EXPERIENCE      **Twitter Cortex (Research Internship)**      May 2022 – August 2022  
– Research on Graph ML on the UMR team.

**Cornell University (Graduate Research Assistant)**      May 2021 –

	<b>GeomScale Organization</b>	<i>May 2019 –</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>Ratle (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>
	– 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>