Contact Information		
	E-mail	papachristoumarios@cs.cornell.edu
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	Google Scholar	[profile]
	Twitter	@papachristoum

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]
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] *(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 Graph ML on the UMR team.
  Project: Node classification for large scale graphs.

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

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*

PROFESSIONAL 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

Undergraduate Teaching Assistant (NTUA)
– Discrete Mathematics (4th Semester) *Spring 2017*
– Programming Techniques (2nd Semester) *Spring 2016*
– Introduction to Computer Programming (1st Semester) *Fall 2016, Fall 2017*

HONORS & AWARDS

– LinkedIn Ph.D. Fellowship *2022*
– A.G. Leventis Scholarship *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 IEEEXtreme 12.0 Programming Competition *2017*
– Touramanoglu Scholarship *2015*
– "The Great Moment of Education" Scholarship *2015*

ACADEMIC SERVICE

– *Program Committee.* FAccT '22
– *Reviewer.* JOSS, WHMD@NeurIPS '21, OR Spectrum
– *Mentor.* Google Summer of Code Mentor
  ○ GeomScale organization *2021, 2022*
  ○ GFOSS-OTA *2019*