

- [W2] **Marios Papachristou**, Amin Rahimian. “Production Networks Resilience: Cascading Failures, Power Laws and Optimal Interventions”. *Under review*. Preliminary poster presented at the ACM Conference of Economics and Computation (EC). 2023.
[\[preprint\]](#) [\[code\]](#) [\[slides\]](#)
- [W3] **Marios Papachristou**, Sid Banerjee, Jon Kleinberg, “Optimal Resource Allocation for Remediating Networked Contagions”. *Under review*. 2023.
This paper extends our previous work in WWW 2022 and WWW 2023.
[\[slides\]](#)
- [W4] **Marios Papachristou**, Rishab Goel, Frank Portman, Matt Miller, Rong Jin. “GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs”. *Under Review*. 2023
Preliminary version presented at NeurIPS workshop on Graph Learning Frontiers (GLFrontiers), 2022.
[\[preprint\]](#) [\[poster\]](#) [\[workshop\]](#)
- [W5] **Marios Papachristou**, Dimitris Fotakis. “Stochastic Opinion Dynamics for User Interest Prediction in Online Social Networks”. *Preprint*, 2020.
[\[preprint\]](#)

RESEARCH
EXPERIENCE

Applied Research Intern – Microsoft *May 2023 – August 2023⁴*
 – Large Language Models (LLMs) for collective intelligence.
 – *Office of Applied Research, with Chin-Chia Hsu and Longqi Yang*

Engineering Intern – Twitter *May 2022 – August 2022*
 – Scalable Graph Machine Learning on graphs.
 – *User Modeling Research, with Rishab Goel, Frank Portman, and Matthew Miller*

Graduate Researcher – Cornell University *Sept. 2020 – ongoing*
 – Research in social and information networks, (allocation algorithms to mitigate contagion in financial and supply-chain networks, statistical graph and hyper-graph models)

Researcher – GeomScale Organization *May 2020 – March 2020*
 – Part-time research on sampling from truncated log-concave densities, and convex optimization, working on the [volesti](#) open-source package.
 – *Mentors: Apostolos Chalkis, Vissarion Fisikopoulos, Elias Tsigaridas*

Researcher – Athens University of Economics and Business *2018 – 2020*
 – Software architecture recovery via call graphs, source code embeddings, and clustering methods.
 – *Mentor: Diomidis Spinellis*

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.*
[\[code\]](#) [\[data\]](#) [\[talk\]](#)

Researcher – P2P Lab *2013 – 2014*

HONORS &
AWARDS

- Onassis Scholarship *2023*
- 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

TEACHING
EXPERIENCE

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

TALKS &
PRESENTATIONS
†= scheduled
*= presented by
co-author

- ***Production Networks Resilience: Cascading Failures, Power Laws, and Optimal Interventions***
 - INFORMS Annual Meeting^{†*} *October 2023*
 - Cornell University, LinkedIn Campus Visit *May 2023*
- ***Resource Allocation in a Financial Contagion Environment***
 - University of Chicago, Theory Seminar[†] *October 2023*
 - Indiana University, Center for Complex Networks and Systems Research *September 2023*
 - Cornell University, CS 6850 Guest Lecture *April 2023*
 - Cornell University, Theory Seminar *November 2022*
- ***Dynamic Interventions for Networked Contagions***
 - *Invited Talk at* INFORMS Annual Meeting[†] *October 2023*
 - ACM Web Conference *April 2023*
 - ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization *October 2022*
- ***Core-periphery Models for Hypergraphs***
 - ACM Conference on Knowledge Discovery and Data Mining *August 2022*
- ***GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs***
 - NeurIPS Workshop on Graph Learning Frontiers *December 2022*
 - Twitter, Machine Learning Seminar *August 2022*
- ***Allocating Stimulus Checks in Times of Crisis***
 - ACM Web Conference *April 2022*
 - ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization *October 2021*
- ***Sampling from Truncated High Dimensional Logconcave Densities***
 - PyData Global *December 2020*
- ***Software Clusterings with Vector Semantics and the Call Graph***
 - ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering *August 2019*

SERVICE

- *Program Committee*
 - ACM Conference on Fairness Accountability and Transparency (FAccT) *2022*
 - ACM Conference on Knowledge Discovery and Data Mining (KDD) *2023*
- *Reviewing*

- Innovations in Theoretical Computer Science (ITCS) 2024
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD) 2023
- Machine Learning (Springer)
- NeurIPS 2022 Workshop on Graph Learning Frontiers (GLFrontiers) 2022
- NeurIPS 2021 Workshop on Human and Machine Decisions 2021–
- Journal of Open Source Software 2021–
- *Mentorship*
 - Student-applicant Support Program at Cornell CIS 2022
 - Google Summer of Code 2019–2022

LAST UPDATED September 19, 2023