

**Marios Papachristou**  
Assistant Professor of Information Systems  
W. P. Carey School of Business  
Arizona State University

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PERSONAL INFORMATION	E-mail Phone Website Office Nationality	<a href="mailto:mpapachr@asu.edu">mpapachr@asu.edu</a> +1-480-727-5771 <a href="https://papachristoumarios.github.io">papachristoumarios.github.io</a> 400 E Lemon St, BAC 685, Tempe, AZ 85281 Greek, US Permanent Resident (Green Card Holder)
RESEARCH	Network Economics, Platforms, AI agents, Privacy, Computational Social Science	
EMPLOYMENT	<b>W.P. Carey School of Business, Arizona State University</b> Tenure-Track Assistant Professor, Department of Information Systems • Affiliated Member, Center for AI and Data Analytics (AIDA)	2025 –
	<b>Microsoft Research</b> Office of Applied Research, <i>with Chin-Chia Hsu and Longqi Yang</i>	<i>Summer 2023</i>
	<b>Twitter</b> User Modeling Research Group, <i>with Rishab Goel, Frank Portman, Matt Miller</i>	<i>Summer 2022</i>
EDUCATION	<b>Cornell University</b> Ph.D. in Computer Science, Minor: <i>Applied Mathematics</i> – <i>Doctoral Advisor:</i> Jon Kleinberg – <i>Thesis Title:</i> From Contagion to Stability: Insights into Network Dynamics, Resilience and Stability	2020 – 2025
	M.S. in Computer Science	2020 – 2022
	<b>National Technical University of Athens</b> Diploma in Electrical and Computer Engineering – <i>Advisor:</i> Dimitris Fotakis	2015 – 2020
HONORS & AWARDS	<ul style="list-style-type: none"><li>– <b>ACM Doctoral Dissertation Award Nominee</b> 2025 Nominated to the ACM by Cornell's CS department as the best Ph.D. thesis in CS awarded in 2025.</li><li>– <b>ACM/AAAI SIGAI Doctoral Dissertation Award Nominee</b> 2025 Nominated to the ACM by Cornell's CS department as the best Ph.D. thesis in AI awarded in 2025.</li><li>– <b>Sigma Xi Elected Membership</b> 2025 Elected member based on scientific contributions.</li><li>– <b>Cornell ORIE Young Researchers Workshop</b> 2024</li><li>– <b>Alexander A. Onassis Scholarship</b> 2023 Three-year fellowship for Greek Ph.D. students. Acceptance rate: 16%.</li><li>– <b>Bodossaki Foundation Fellowship</b> 2023 Runner-up.</li><li>– <b>LinkedIn Ph.D. Fellowship</b> 2022 One-year fully funded fellowship by LinkedIn. Acceptance rate 14%.</li><li>– <b>A.G. Leventis Scholarship</b> 2022 Award for graduate students of Greek origin. Acceptance rate 12.5%.</li></ul>	

- **Gerondelis Scholarship** 2022  
One-time award for graduate students of Greek descent.
- **Chateaubriand Fellowship** 2022  
Fellowship granted by the French Embassy in the US for studies in France (declined for personal reasons). Acceptance rate 33%.
- **Cornell Fellowship** 2020  
One-year fully funded fellowship by the CS department based on "exceptional preparation and promise".
- **Thomaidion Award** 2019  
Awarded by NTUA for publication during undergraduate studies.
- **ESEC/FSE 2019 ACM Student Research Competition Finalist** 2019
- **CanSat International Space Engineering Competition** 2019  
4th out of 93 teams. Organized by the American Astronautical Society (AAS).
- **2nd prize "be finnovative 2.0" Start-up Accelerator by National Bank of Greece 2018**  
Cashierless payments start-up.
- **1st prize at "Crowdhackathon Fintech #2" by the National Bank of Greece 2017**  
Cashierless payments start-up.
- **IEEEExtreme 11.0 Programming Competition** 2017  
Top 1% worldwide in IEEE's algorithms competition.
- **Touramanoglu Scholarship** 2015  
Highest University Entrance Exams score in the Imittos region.
- **"The Great Moment of Education" Scholarship by Eurobank SA** 2015  
Highest University Entrance Exams score in the Imittos region.

## PAPERS

[Google Scholar Profile](#)

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

### Journal Papers

- [J1] **Network Formation and Dynamics among Multi-LLMs**  
*Marios Papachristou, Yuan Yuan*  
*PNAS Nexus, 2025*  
[\[preprint\]](#) [\[code\]](#)  
– *Taught at UC Berkeley, Stanford, UIUC and others*
- [J2] **Leveraging Large Language Models for Collective Decision-Making**  
*Marios Papachristou, Longqi Yang, Chin-Chia Hsu*  
*PACM HCI Journal (presented at ACM CSCW '25), 2025*  
[\[paper\]](#)  
– *Invited talk at the LLMs as Research Tools Workshop at ACM CHI 2024*  
– *Featured by the ACM [news]*
- [J3] **volesti: A C++ library for sampling and volume computation on convex bodies**  
 $\alpha\beta$ *Apostolos Chalkis\*, Vissarion Fisikopoulos\*, Marios Papachristou\*, Elias Tsigaridas\**  
*Journal of Open Source Software, 2025*  
[\[paper\]](#) [\[code\]](#)
- [J4] **Differentially Private Distributed Estimation and Learning**  
*Marios Papachristou, Amin Rahimian*  
*IISE Transactions, 2025*  
*and the University of Pittsburgh Swanson School of Engineering*  
[\[paper\]](#) [\[code\]](#) [\[talk\]](#)  
– *Featured at the July 2025 issue of the ISE Magazine [news]*  
– *Featured by the University of Pittsburgh Swanson School of Engineering [news]*

- [J5] **Truncated Log-concave Sampling for Convex Bodies with Reflective Hamiltonian Monte Carlo**  
 $\alpha\beta$  Apostolos Chalkis, Vissarion Fisikopoulos, *Marios Papachristou*, Elias Tsigaridas  
*ACM Transactions on Mathematical Software (TOMS)*, 2023  
[\[paper\]](#) [\[code\]](#)

### Top-tier CS Conference Proceedings

- [C1] **Dynamic Interventions for Networked Contagions**  
*Marios Papachristou*, Sid Banerjee, Jon Kleinberg  
*WWW '23: ACM Web Conference (WWW)*, 2023  
[\[paper\]](#) [\[code\]](#)  
– Acceptance rate: 17%
- [C2] **Core-periphery Models for Hypergraphs**  
*Marios Papachristou*, Jon Kleinberg  
*KDD '22: ACM Intl. Conf. on Knowledge Discovery and Data Mining (KDD)*, 2022  
[\[paper\]](#) [\[code\]](#) [\[data\]](#)  
– Acceptance rate: 15%  
– Taught at tutorials at KDD and CIKM
- [C3] **Allocating Stimulus Checks in Times of Crisis**  
*Marios Papachristou*, Jon Kleinberg  
*WWW '22: ACM Web Conference (WWW)*, 2022  
[\[paper\]](#) [\[code\]](#)  
– Acceptance rate: 17%  
– Featured by the Federal Reserve Bank of Minneapolis [\[news\]](#)  
– Taught at UC Berkeley
- [C4] **Software Clusterings with Vector Semantics and the Call Graph**  
*Marios Papachristou*  
*ESEC/FSE '19: ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)*, 2019  
[\[paper\]](#) [\[code\]](#) [\[data\]](#)  
– Acceptance rate: 21%  
– ESEC/FSE Student Research Competition Finalist Paper

### Revisions & Working Papers

- [WP1] **Echoes of Disagreement: Measuring Disparity in Social Consensus**  
*Marios Papachristou*, Jon Kleinberg  
*Under review, INFORMS Journal of Computing*, 2024  
[\[preprint\]](#) [\[code\]](#)
- [WP2] **The Price of Misreporting: Measuring the Effect of Adversarial Behavior in Online Platforms**  
*Marios Papachristou*, Akhil Jalan  
*Conference version under review at ACM Web Conference (WWW)*,  
*Journal version under preparation for submission to Information Systems Research*, 2025  
[\[preprint\]](#) [\[code\]](#)
- [WP3] **Optimal Resource Allocation for Remediating Networked Contagions**  
*Marios Papachristou*, Sid Banerjee, Jon Kleinberg  
*Under preparation for submission to Operations Research*, 2024  
[\[preprint\]](#) [\[slides\]](#)
- [WP4] **Differentially Private Distributed Inference**  
*Marios Papachristou*, Amin Rahimian

*Under preparation for submission to INFORMS Journal of Computing, 2024*  
*Preliminary version presented at the Theory and Practice of Differential Privacy Workshop (TPDP)*  
[[preprint](#)] [[talk](#)]

[WP5] **Structural Measures of Resilience for Supply Chains**

*Marios Papachristou, Amin Rahimian*  
*Reject and resubmit, Management Science, 2024*  
[[preprint](#)] [[code](#)] [[slides](#)]

**Refereed CS Workshops**

[W1] **GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs**

*Marios Papachristou, Rishab Goel, Frank Portman, Matt Miller, Rong Jin*  
*NeurIPS workshop on Graph Learning Frontiers (GLFrontiers), 2022*  
[[paper](#)] [[poster](#)]

**SOFTWARE**

**volesti**

[github.com/GeomScale/volesti](https://github.com/GeomScale/volesti)

Open-source C++ statistical software for sampling and volume approximation from convex bodies.

**OTHER EXPERIENCE**

**GeomScale Open-source Organization**

*May 2020 – March 2020*

Sampling from truncated log-concave densities, and convex optimization, working on the [volesti](#) open-source package *with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas*

**Cashierless Payments Start-up**

*2017 – 2018*

Part of National Bank of Greece's start-up accelerator

**Athens University of Economics and Business**

*2018 – 2020*

Department of Management Science and Technology, *with Prof. Diomidis Spinellis*

**Google Summer of Code 2020 (GeomScale)**

*June 2020 – August 2020*

Sampling from high-dimensional truncated log-concave densities, *with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas*

[[code](#)] [[talk](#)]

**Google Summer of Code 2018 (GFOSS-OTA)**

*April 2018–September 2018*

Automated codification of Greek Legislation, *with Prof. Diomidis Spinellis*

[[code](#)] [[data](#)] [[talk](#)]

**Researcher – P2P Lab**

*2013 – 2014*

**TEACHING & MENTORSHIP 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*
- Student-applicant Support Program at Cornell CIS *2022*
- Google Summer of Code Mentor *2019–2022*
- Volunteer lessons for the National Olympiad of Informatics (PDP) *2019*

TALKS &  
LECTURES  
† = scheduled  
\* = presented by co-author

- Student Mentees: Jasmine Li (Undergraduate Cornell CS), Ioannis Iakovidis (Google Summer of Code 2022; now Ph.D. student at Johns Hopkins), Zhang Zhuyan (Google Summer of Code 2022; now Technology analyst at Bank of America), Souraj Choubey (Google Summer of Code 2021)
- ***Resilience in Networks: Frameworks for Resource Allocation and Simulation***
  - Archimedes, Athena RC April 2025
  - TOC4Fairness Seminar, Simons Institute March 2025
  - Cornell University, Theory Seminar December 2024
  - Arizona State University, W.P. Carey School of Business November 2024
  - Purdue University, Daniels School of Business November 2024
  - MIT, Research Group Meeting June 2024
- ***Network Formation and Dynamics among Multi-LLMs***
  - Arizona State University, School of Mathematical and Natural Sciences, AI Seminar November 2025
  - INFORMS Annual Meeting October 2025
  - Symposium on Statistical Challenges on Electronic Commerce Research (SCECR) June 2025
  - Arizona State University, Machine Learning Day April 2025
  - NSF Conference on Network Science and Economics April 2025
  - INFORMS Annual Meeting October 2024
  - IBM Research, Exploratory Math Sciences Council Seminar April 2024
  - UIUC, Guest Lecture at the Network Analysis Course April 2024
  - Cornell University, AIPP Group March 2024
  - Learning on Graphs (LoG) NYC Meetup February 2024
- ***Information Aggregation and Distributed Learning in Privacy-critical Environments***
  - CMU, Tepper School of Business OM Seminar\* September 2024
  - TOC4Fairness Online Seminar Series\* March 2024
  - Information: Theory and Applications (ITA) Workshop\* February 2024
  - Rutgers University Business School, Seminar\* November 2023
- ***Leveraging Large Language Models for Collective Decision-Making***
  - LLMs as Research Tools: Applications and Evaluations in HCI Data Work Workshop, ACM Conference on Human-Computer Interaction\* May 2024
  - Microsoft Research, Invited Applied Research Talks August 2023
- ***Structural Measures of Resilience for Supply Chains***
  - NSF Conference on Network Science and Economics April 2024
  - Columbia University, Student Theory Seminar November 2023
  - Cornell University, Theory Tea November 2023
  - 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***
  - 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

## DEPARTMENTAL & PROFESSIONAL SERVICE

## Seminar Organizer

- Department of Information Systems Brown Bag Seminar Organizer

## Program Committee

- ACM Conference on Fairness Accountability and Transparency (FAccT)
  - ACM Conference on Knowledge Discovery and Data Mining (KDD)

Reviewer

- Management Science
  - Mathematics of Operation Research
  - Journal of Artificial Intelligence Research
  - Naval Research Logistics
  - International Conference on Computational Social Science (IC2S2)
  - ACM Web Conference (WWW)
  - Innovations in Theoretical Computer Science (ITCS)
  - ACM Conference on Human Factors in Computing (CHI)
  - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD)
  - Machine Learning
  - NeurIPS 2022 Workshop on Graph Learning Frontiers (GLFrontiers)
  - NeurIPS 2021 Workshop on Human and Machine Decisions
  - Journal of Open Source Software

Session Chair

- INFORMS Annual Meeting 2025
  - NSF Conference on Network Science and Economics 2024
  - ACM Web Conference (WWW) 2022

## REFERENCES

**Jon Kleinberg** ([kleinberg@cornell.edu](mailto:kleinberg@cornell.edu))

Dept. of Computer and Information Science, Cornell University

**Siddhartha Banerjee** ([sbanerjee@cornell.edu](mailto:sbanerjee@cornell.edu))

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Google DeepMind

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LAST UPDATED

November 15, 2025