

**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	mpapachr@asu.edu +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>	Summer 2023
	<b>Twitter</b> User Modeling Research Group, <i>with Rishab Goel, Frank Portman, Matt Miller</i>	Summer 2022
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 SIGAI by Cornell's CS department as the best Ph.D. thesis in AI awarded in 2025.</li><li>– <b>Sigma Xi</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.

#### JOURNAL PAPERS

[Google Scholar Profile](#)

$\alpha\beta$  = alphabetical order

\* = equal contribution

$\circ$  = corresponding author

#### [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
- Featured by PNAS Nexus at EurekAlert! [\[news\]](#)
- Featured by TechXplore [\[news\]](#)

#### [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 [\[news\]](#)

TOP-TIER CS  
CONFERENCE  
PROCEEDINGS

- [J5] **Truncated Log-concave Sampling for Convex Bodies with Reflective Hamiltonian Monte Carlo**  
 $\alpha\beta$  Apostolos Chalkis, Vissarion Fisikopoulos, *Marios Papachristou<sup>o</sup>*, Elias Tsigaridas  
*ACM Transactions on Mathematical Software (TOMS)*, 2023  
[\[paper\]](#) [\[code\]](#)  
– Featured at ODBMS.org [\[news\]](#)
- [J6] **Sublinear Domination and Core-periphery Networks**  
*Marios Papachristou*  
*Scientific Reports*, 2021  
[\[paper\]](#) [\[code\]](#)
- [J7] **Commons-based peer production and digital fabrication: The case of a RepRap-based, Lego-built 3D printing-milling machine**  
Vasilis Kostakis\*, and *Marios Papachristou\**  
*Telematics and Informatics*, 2014  
[\[paper\]](#)

REVISIONS &  
WORKING PAPERS

- [WP1] **Structural Measures of Resilience for Supply Chains**  
*Marios Papachristou*, Amin Rahimian  
*Major revision, Production and Operations Management*, 2024  
[\[preprint\]](#) [\[code\]](#) [\[slides\]](#)
- [WP2] **Echoes of Disagreement: Measuring Disparity in Social Consensus**  
*Marios Papachristou*, Jon Kleinberg  
*Under review, INFORMS Journal of Computing*, 2024  
[\[preprint\]](#) [\[code\]](#)

[WP3] **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*

[\[preprint\]](#) [\[code\]](#)

[WP4] **Optimal Resource Allocation for Remediating Networked Contagions**

*Marios Papachristou, Sid Banerjee, Jon Kleinberg*

*Under preparation for submission to Operations Research, 2024*

[\[preprint\]](#) [\[slides\]](#)

[WP5] **Group Decision-Making among Privacy-aware Agents**

*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)*

[\[preprint\]](#) [\[talk\]](#)

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*

[\[paper\]](#) [\[poster\]](#)

TUTORIALS

[T1] **Differential Privacy for Strategic Information Sharing and Learning: Foundations, Mechanisms, and Applications**

*Amin Rahimian, Juba Ziani, Marios Papachristou, Yuxin Liu*

*Conference on Web and Internet Economics (WINE), 2025*

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

### MENTEES

- Yuxin Liu (Ph.D. student at the University of Pittsburgh)
- 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)

### TALKS & LECTURES <sup>†</sup>= scheduled <sup>\*</sup>= presented by co-author

- **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  
AND  
PROFESSIONAL  
SERVICE

### Department and School Outreach

- Department of Information Systems Brown Bag Seminar Organizer [\[link\]](#)
- W. P. Carey School of Business, PhD Lunch and Learn, November 2025, Keynote Speaker [\[link\]](#)

### Program Committee

- ACM Conference on Fairness Accountability and Transparency (FAccT)
- ACM Conference on Knowledge Discovery and Data Mining (KDD)
- IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (TPS)

### Ad-hoc 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

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|---|------|
| – 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
- Yong-Yeol Ahn** ([yyahn@virginia.edu](mailto:yyahn@virginia.edu))  
School of Data Science, University of Virginia

### LAST UPDATED

December 3, 2025