

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

PERSONAL INFORMATION	E-mail	<a href="mailto:mpapachr@asu.edu">mpapachr@asu.edu</a>
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	Website	<a href="https://papachristoumarios.github.io">papachristoumarios.github.io</a>
	Office	400 E Lemon St, BAC 685, Tempe, AZ 85281
	Nationality	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>	2025 –
	Tenure-Track Assistant Professor, Department of Information Systems	
	• Affiliated Member, Center for AI and Data Analytics (AIDA)	
	<b>Microsoft Research</b>	Summer 2023
	Office of Applied Research, <i>with Chin-Chia Hsu and Longqi Yang</i>	
EDUCATION	<b>Twitter</b>	Summer 2022
	User Modeling Research Group, <i>with Rishab Goel, Frank Portman, Matt Miller</i>	
	<b>Cornell University</b>	2020 – 2025
	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	
	M.S. in Computer Science	2020 – 2022
	<b>National Technical University of Athens</b>	2015 – 2020
	Diploma in Electrical and Computer Engineering	
	– <i>Advisor</i> : Dimitris Fotakis	
HONORS & AWARDS	– <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.	
	– <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.	
	– <b>Sigma Xi</b>	2025
	Elected member based on scientific contributions.	
	– <b>Cornell ORIE Young Researchers Workshop</b>	2024
	– <b>Alexander A. Onassis Scholarship</b>	2023
	Three-year fellowship for Greek Ph.D. students. Acceptance rate: 16%.	
	– <b>Bodossaki Foundation Fellowship</b>	2023
	Runner-up.	
	– <b>LinkedIn Ph.D. Fellowship</b>	2022
	One-year fully funded fellowship by LinkedIn. Acceptance rate 14%.	
	– <b>A.G. Leventis Scholarship</b>	2022
	Award for graduate students of Greek origin. Acceptance rate 12.5%.	

- **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

- [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  
*IJSE 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 [\[news\]](#)

	<p>[J5] <b>Truncated Log-concave Sampling for Convex Bodies with Reflective Hamiltonian Monte Carlo</b>  <math>\alpha\beta</math> Apostolos Chalkis, Vissarion Fisikopoulos, <i>Marios Papachristou</i>, Elias Tsigaridas  <i>ACM Transactions on Mathematical Software (TOMS)</i>, 2023  <a href="#">[paper]</a> <a href="#">[code]</a></p>
TOP-TIER CS CONFERENCE PROCEEDINGS	<p>[C1] <b>Dynamic Interventions for Networked Contagions</b>  <i>Marios Papachristou</i>, Sid Banerjee, Jon Kleinberg  <i>WWW '23: ACM Web Conference (WWW)</i>, 2023  <a href="#">[paper]</a> <a href="#">[code]</a>  – Acceptance rate: 17%</p> <p>[C2] <b>Core-periphery Models for Hypergraphs</b>  <i>Marios Papachristou</i>, Jon Kleinberg  <i>KDD '22: ACM Intl. Conf. on Knowledge Discovery and Data Mining (KDD)</i>, 2022  <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[data]</a>  – Acceptance rate: 15%  – Taught at tutorials at KDD and CIKM</p> <p>[C3] <b>Allocating Stimulus Checks in Times of Crisis</b>  <i>Marios Papachristou</i>, Jon Kleinberg  <i>WWW '22: ACM Web Conference (WWW)</i>, 2022  <a href="#">[paper]</a> <a href="#">[code]</a>  – Acceptance rate: 17%  – Featured by the Federal Reserve Bank of Minneapolis <a href="#">[news]</a>  – Taught at UC Berkeley</p> <p>[C4] <b>Software Clusterings with Vector Semantics and the Call Graph</b>  <i>Marios Papachristou</i>  <i>ESEC/FSE '19: ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)</i>, 2019  <a href="#">[paper]</a> <a href="#">[code]</a> <a href="#">[data]</a>  – Acceptance rate: 21%  – ESEC/FSE Student Research Competition Finalist Paper</p>
REVISIONS & WORKING PAPERS	<p>[WP1] <b>Echoes of Disagreement: Measuring Disparity in Social Consensus</b>  <i>Marios Papachristou</i>, Jon Kleinberg  <i>Under review, INFORMS Journal of Computing</i>, 2024  <a href="#">[preprint]</a> <a href="#">[code]</a></p> <p>[WP2] <b>The Price of Misreporting: Measuring the Effect of Adversarial Behavior in Online Platforms</b>  <i>Marios Papachristou</i>, Akhil Jalan  <i>Conference version under review at ACM Web Conference (WWW),</i>  <i>Journal version under preparation for submission to Information Systems Research</i>, 2025  <a href="#">[preprint]</a> <a href="#">[code]</a></p> <p>[WP3] <b>Optimal Resource Allocation for Remediating Networked Contagions</b>  <i>Marios Papachristou</i>, Sid Banerjee, Jon Kleinberg  <i>Under preparation for submission to Operations Research</i>, 2024  <a href="#">[preprint]</a> <a href="#">[slides]</a></p> <p>[WP4] <b>Group Decision-Making among Privacy-aware Agents</b>  <i>Marios Papachristou</i>, Amin Rahimian  <i>Under preparation for submission to INFORMS Journal of Computing</i>, 2024  <i>Preliminary version presented at the Theory and Practice of Differential Privacy Workshop (TPDP)</i>  <a href="#">[preprint]</a> <a href="#">[talk]</a></p>

	<p>[WP5] <b>Structural Measures of Resilience for Supply Chains</b>  <i>Marios Papachristou</i>, Amin Rahimian  <i>Major revision, Production and Operations Management</i>, 2024  <a href="#">[preprint]</a> <a href="#">[code]</a> <a href="#">[slides]</a></p>
REFEREED CS WORKSHOPS	<p>[W1] <b>GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs</b>  <i>Marios Papachristou</i>, Rishab Goel, Frank Portman, Matt Miller, Rong Jin  <i>NeurIPS workshop on Graph Learning Frontiers (GLFrontriers)</i>, 2022  <a href="#">[paper]</a> <a href="#">[poster]</a></p>
SOFTWARE	<p><b>volesti</b> <a href="https://github.com/GeomScale/volesti">github.com/GeomScale/volesti</a>  Open-source C++ statistical software for sampling and volume approximation from convex bodies.</p>
OTHER EXPERIENCE	<p><b>GeomScale Open-source Organization</b> <span style="float: right;"><i>May 2020 – March 2020</i></span>  Sampling from truncated log-concave densities, and convex optimization, working on the <a href="#">volesti</a> open-source package <i>with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas</i></p> <p><b>Cashierless Payments Start-up</b> <span style="float: right;"><i>2017 – 2018</i></span>  Part of National Bank of Greece’s start-up accelerator</p> <p><b>Athens University of Economics and Business</b> <span style="float: right;"><i>2018 – 2020</i></span>  Department of Management Science and Technology, <i>with Prof. Diomidis Spinellis</i></p> <p><b>Google Summer of Code 2020 (GeomScale)</b> <span style="float: right;"><i>June 2020 – August 2020</i></span>  Sampling from high-dimensional truncated log-concave densities, <i>with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas</i>  <a href="#">[code]</a> <a href="#">[talk]</a></p> <p><b>Google Summer of Code 2018 (GFOSS-OTA)</b> <span style="float: right;"><i>April 2018–September 2018</i></span>  Automated codification of Greek Legislation, <i>with Prof. Diomidis Spinellis</i>  <a href="#">[code]</a> <a href="#">[data]</a> <a href="#">[talk]</a></p> <p><b>Researcher – P2P Lab</b> <span style="float: right;"><i>2013 – 2014</i></span></p>
TEACHING & MENTORSHIP EXPERIENCE	<ul style="list-style-type: none"> <li>– The Structure of Information Networks (PhD-level, Cornell) <span style="float: right;"><i>Spring &amp; Fall 2023</i></span></li> <li>– Discrete Mathematics (NTUA) <span style="float: right;"><i>Spring 2017</i></span></li> <li>– Programming Techniques (NTUA) <span style="float: right;"><i>Spring 2016</i></span></li> <li>– Introduction to Computer Programming (NTUA) <span style="float: right;"><i>Fall 2016, Fall 2017</i></span></li> <li>– Student-applicant Support Program at Cornell CIS <span style="float: right;"><i>2022</i></span></li> <li>– Google Summer of Code Mentor <span style="float: right;"><i>2019–2022</i></span></li> <li>– Volunteer lessons for the National Olympiad of Informatics (PDP) <span style="float: right;"><i>2019</i></span></li> <li>– 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)</li> </ul>
TALKS & LECTURES	<ul style="list-style-type: none"> <li>• <b>Resilience in Networks: Frameworks for Resource Allocation and Simulation</b> <ul style="list-style-type: none"> <li>– Archimedes, Athena RC <span style="float: right;"><i>April 2025</i></span></li> <li>– TOC4Fairness Seminar, Simons Institute <span style="float: right;"><i>March 2025</i></span></li> </ul> </li> </ul>
† = scheduled * = presented by co-author	

- 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)  
Dept. of Computer and Information Science, Cornell University

**Siddhartha Banerjee** (sbanerjee@cornell.edu)  
School of Operations Research and Information Engineering, Cornell University

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