

**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

° = 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*  
*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 [\[news\]](#)

- [J5] **Truncated Log-concave Sampling for Convex Bodies with Reflective Hamiltonian Monte Carlo**  
 <sup>$\alpha\beta$</sup> 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  
[\[paper\]](#)

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

	<p>[WP3] <b>The Price of Misreporting: Measuring the Effect of Adversarial Behavior in Online Platforms</b>  <b>Marios Papachristou</b>, Akhil Jalan  <i>Conference version under review at ACM Web Conference (WWW),</i>  <i>Journal version under preparation for submission to Information Systems Research, 2025</i>  <a href="#">[preprint]</a> <a href="#">[code]</a></p> <p>[WP4] <b>Optimal Resource Allocation for Remediating Networked Contagions</b>  <b>Marios Papachristou</b>, Sid Banerjee, Jon Kleinberg  <i>Under preparation for submission to Operations Research, 2024</i>  <a href="#">[preprint]</a> <a href="#">[slides]</a></p> <p>[WP5] <b>Group Decision-Making among Privacy-aware Agents</b>  <b>Marios Papachristou</b>, Amin Rahimian  <i>Under preparation for submission to INFORMS Journal of Computing, 2024</i>  <i>Preliminary version presented at the Theory and Practice of Differential Privacy Workshop (TPDP)</i>  <a href="#">[preprint]</a> <a href="#">[talk]</a></p>
REFEREED CS WORKSHOPS	<p>[W1] <b>GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs</b>  <b>Marios Papachristou</b>, Rishab Goel, Frank Portman, Matt Miller, Rong Jin  <i>NeurIPS workshop on Graph Learning Frontiers (GLFrontiers), 2022</i>  <a href="#">[paper]</a> <a href="#">[poster]</a></p>
TUTORIALS	<p>[T1] <b>Differential Privacy for Strategic Information Sharing and Learning: Foundations, Mechanisms, and Applications</b>  Amin Rahimian, Juba Ziani, <b>Marios Papachristou</b>, Yuxin Liu  <i>Conference on Web and Internet Economics (WINE), 2025</i></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>

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

† = scheduled

\* = 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

- 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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**Yuan Yuan** (yuyuan@ucdavis.edu)  
 OpenAI and Graduate School of Management, UC Davis

**Longqi Yang** (longqi.yang@microsoft.com)  
 Office of Applied Research, Microsoft Research

**Chin-Chia Hsu** (chinchia.k.hsu@gmail.com)  
 Google DeepMind

**Yong-Yeol Ahn** (yyahn@virginia.edu)  
 School of Data Science, University of Virginia

### LAST UPDATED

December 3, 2025