

**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>	<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>Sigma Xi</b> 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><li>– <b>Gerondelis Scholarship</b> 2022 One-time award for graduate students of Greek descent.</li><li>– <b>Chateaubriand Fellowship</b> 2022 Fellowship granted by the French Embassy in the US for studies in France (declined for personal reasons). Acceptance rate 33%.</li></ul>	

- **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*  
*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*  
[\[paper\]](#) [\[code\]](#)

- [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] **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]
- [WP5] **Structural Measures of Resilience for Supply Chains**  
*Marios Papachristou, Amin Rahimian*  
Major revision, Production and Operations Management, 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*
- 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)

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 &  
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

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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))  
School of Operations Research and Information Engineering, Cornell University
- Amin Rahimian** ([rahimian@pitt.edu](mailto:rahimian@pitt.edu))  
Department of Industrial Engineering, University of Pittsburgh
- Yuan Yuan** ([yuyuan@ucdavis.edu](mailto:yuyuan@ucdavis.edu))  
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- Chin-Chia Hsu** ([chinchia.k.hsu@gmail.com](mailto:chinchia.k.hsu@gmail.com))  
Google DeepMind
- Yong-Yeol Ahn** ([yyahn@virginia.edu](mailto:yyahn@virginia.edu))  
School of Data Science, University of Virginia

### LAST UPDATED

November 17, 2025