

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

[illegible]

- **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 [\[news\]](#)
- [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] **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	<p>[W1] GLINKX: A Scalable Unified Framework for Homophilous and Heterophilous Graphs <i>Marios Papachristou</i>, Rishab Goel, Frank Portman, Matt Miller, Rong Jin <i>NeurIPS workshop on Graph Learning Frontiers (GLFrontriers)</i>, 2022 [paper] [poster]</p>
SOFTWARE	<p>volesti github.com/GeomScale/volesti Open-source C++ statistical software for sampling and volume approximation from convex bodies.</p>
OTHER EXPERIENCE	<p>GeomScale Open-source Organization <i>May 2020 – March 2020</i> Sampling from truncated log-concave densities, and convex optimization, working on the volesti open-source package <i>with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas</i></p> <p>Cashierless Payments Start-up <i>2017 – 2018</i> Part of National Bank of Greece’s start-up accelerator</p> <p>Athens University of Economics and Business <i>2018 – 2020</i> Department of Management Science and Technology, <i>with Prof. Diomidis Spinellis</i></p> <p>Google Summer of Code 2020 (GeomScale) <i>June 2020 – August 2020</i> Sampling from high-dimensional truncated log-concave densities, <i>with Dr. Apostolos Chalkis, Dr. Vissarion Fisikopoulos, and Dr. Elias Tsigaridas</i> [code] [talk]</p> <p>Google Summer of Code 2018 (GFOSS-OTA) <i>April 2018–September 2018</i> Automated codification of Greek Legislation, <i>with Prof. Diomidis Spinellis</i> [code] [data] [talk]</p> <p>Researcher – P2P Lab <i>2013 – 2014</i></p>
TEACHING & MENTORSHIP EXPERIENCE	<ul style="list-style-type: none"> – The Structure of Information Networks (PhD-level, Cornell) <i>Spring & Fall 2023</i> – Discrete Mathematics (NTUA) <i>Spring 2017</i> – Programming Techniques (NTUA) <i>Spring 2016</i> – Introduction to Computer Programming (NTUA) <i>Fall 2016, Fall 2017</i> – Student-applicant Support Program at Cornell CIS <i>2022</i> – Google Summer of Code Mentor <i>2019–2022</i> – Volunteer lessons for the National Olympiad of Informatics (PDP) <i>2019</i> – 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	<ul style="list-style-type: none"> • Resilience in Networks: Frameworks for Resource Allocation and Simulation <ul style="list-style-type: none"> – Archimedes, Athena RC <i>April 2025</i> – TOC4Fairness Seminar, Simons Institute <i>March 2025</i> – Cornell University, Theory Seminar <i>December 2024</i> – Arizona State University, W.P. Carey School of Business <i>November 2024</i> – Purdue University, Daniels School of Business <i>November 2024</i> – MIT, Research Group Meeting <i>June 2024</i> • 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

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LAST UPDATED

November 17, 2025