Alexandros A. Voudouris

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Google Scholar

Research interests

- Approximation Algorithms
- Algorithmic Mechanism Design
- Computational Social Choice
- Fair resource allocation

Academic positions

- **Associate Professor** (October 2023 –)
  School of Computer Science and Electronic Engineering (CSEE), University of Essex, UK

- **Assistant Professor** (April 2020 – September 2023)
  School of Computer Science and Electronic Engineering (CSEE), University of Essex, UK

- **Postdoctoral researcher** (October 2018 – March 2020)
  Department of Computer Science, University of Oxford, UK

Notable academic admin roles

School of Computer Science and Electronic Engineering (CSEE), University of Essex, UK:

- **Director of Centre for Computational Finance and Economic Agents** (August 2024 –)
- **Undergraduate Theme Lead (Computer Science)** (September 2023 –)
  - Deputy Director of Curriculum Development for the undergraduate Computer Science theme (BSc Computer Science, Computer Games, Artificial Intelligence)
- **Postgraduate Theme Lead (Computational Finance)** (September 2023 –)
  - Deputy Director of Curriculum Development for the postgraduate Computational Finance theme (MSc Computational Finance, Algorithmic Trading, Artificial Intelligence in Finance, Financial Technology)
- **Director of Admissions for Computational Finance** (July 2021 –)

Education

- **PhD in Computer Science and Technology** (December 2014 – September 2018)
  Department of Computer Engineering and Informatics, University of Patras, Greece
  Thesis: *Design and analysis of algorithms for non-cooperative environments*
  Advisor: Ioannis Caragiannis

- **MSc in Computer Science and Technology** (September 2013 – February 2015)
  Department of Computer Engineering and Informatics, University of Patras, Greece

Thesis: *On the efficiency of divisible resource allocation mechanisms*
Advisor: Ioannis Caragiannis
GPA: 9.8/10 (top 1%)

- **Diploma in Computer Engineering and Informatics** (September 2008 – July 2013)
University of Patras, Greece
Thesis: *Search algorithms for natural deduction proofs*
Advisor: Stavros Cosmadakis
GPA: 8.39/10 (best GPA in my class of approximately 250 students)

Grants

Knowledge Transfer Partnership (KTP) grant with Broody Limited

- Principal Investigator and Academic Supervisor

- Funded by Innovate UK and Broody

- Project title: *To create innovative, AI-driven tools and services that empower entrepreneurs, while expanding the capacity and knowledge base of the UK's leading business incubator and accelerator*

- Budget (FEC): £275, 757

- Duration: 30 months (July 2024 – December 2026)

Accelerated Knowledge Transfer (AKT) grant with Atom Bank

- Principal Investigator and Academic Supervisor

- Funded by Innovate UK and Atom Bank

- Project title: *Analysing the behaviour of Atom Bank's customers with respect to changes in competitors' interest rates*

- Budget (FEC): £49, 500

- Duration: 4 months (March – July 2024)

Short Term Scientific Mission Grant to visit University of Patras

- Funded by COST Action CA16228 (European Network for Game Theory)

- Project title: *Mechanism design and equilibrium analysis of learning algorithms*

- Budget: €1, 000

- Duration: 2 weeks (September 2019)

PhD Scholarship by the Alexander S. Onassis Foundation

- Scholarship won through proposal competition

- Project title: *Algorithm design and analysis for non-cooperative environments*

- Budget: €14, 400

- Duration: 24 months (October 2016 – September 2018).

Short Term Scientific Mission Grant to visit University of Oxford

- Funded by COST Action IC1205 (Computational Social Choice)

- Project title: *The optimal parliament problem*
- Budget: €1, 200
- Duration: 2 weeks (February 2015)

Participation in research projects

- (10/2018 – 03/2020) ERC ACCORD Project "Algorithms for Complex Collective Decisions on Structured Domains" (639945)
  PI: Prof Edith Elkind
- (10/2014 – 09/2016) Caratheodory 2013 basic research project E.114 (named researcher)
  PI: Prof Ioannis Caragiannis
- (4/2014 – 09/2014) THALES Basic Research Project on Algorithmic Game Theory (AGT)
  PI: Prof Paul Spirakis

Journal paper publications   (in all publications, authors are ordered alphabetically)

[J44] **The price of EF1 for few agents with additive ternary valuations**
M. Kyropoulou and A. A. Voudouris
Operations Research Letters, volume 63, article 107351, 2025

[J43] **Diversity-seeking jump games on networks**
L. Narayanan, Y. Sabbagh, and A. A. Voudouris
Autonomous Agents and Multi-Agent Systems, volume 39, article 32, 2025

[J42] **Mechanism design with predictions for facility location games with candidate locations**
J. Fang, Q. Fang, W. Liu, Q. Nong, and A. A. Voudouris
Journal of Combinatorial Optimization, volume 49, article 74, 2025

[J41] **Improved metric distortion via threshold approvals**
E. Anshelevich, A. Filos-Ratsikas, C. Jerrett, and A. A. Voudouris
Artificial Intelligence, volume 341, article 104295, 2025

[J40] **Metric distortion of distributed obnoxious voting**
A. A. Voudouris
Information Processing Letters, volume 189, article 106559, 2025

[J39] **Agent-constrained truthful facility location games**
A. Deligkas, M. Lotfi, and A. A. Voudouris
Journal of Combinatorial Optimization, volume 49, article 24, 2025

[J38] **Truthful two-facility location with candidate locations**
P. Kanellopoulos, A. A. Voudouris, and R. Zhang
Theoretical Computer Science, volume 1024, article 114913, 2025

[J37] **Revisiting the distortion of distributed voting**
A. Filos-Ratsikas and A. A. Voudouris
Theory of Computing Systems, volume 68, pages 1138–1159, 2024

[J36] **Truthful interval covering**
A. Deligkas, A. Filos-Ratsikas, and A. A. Voudouris
Autonomous Agents and Multi-Agent Systems (JAAMAS), volume 38, article 41, 2024

[J35] **The distortion of distributed facility location**
A. Filos-Ratsikas, P. Kanellopoulos, A. A. Voudouris, and R. Zhang
Artificial Intelligence, volume 328, article 104066, 2024

[J34] **On truthful constrained facility location with max-variant cost**
M. Lotfi and A. A. Voudouris
Operations Research Letters, volume 52, article 107060, 2024

[J33] **Don't roll the dice, ask twice: The two-query distortion of matching problems and beyond**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
SIAM Journal on Discrete Mathematics, volume 38(1), pages 1007–1029, 2024

[J32] **Truthful ownership transfer with expert advice**
I. Caragiannis, A. Filos-Ratsikas, S. Nath, and A. A. Voudouris
Mathematical Programming, volume 203, pages 871–900, 2024

[J31] **Not all strangers are the same: The effect of tolerance in Schelling games**
P. Kanellopoulos, M. Kyropoulou, and A. A. Voudouris
Theoretical Computer Science, volume 971, article 114065, 2023

[J30] **Fair division of indivisible goods: Recent progress and open questions**
G. Amanatidis, H. Aziz, G. Birmpas, A. Filos-Ratsikas, B. Li, H. Moulin, A. A. Voudouris, and X. Wu
Artificial Intelligence, volume 322, article 103965, 2023

[J29] **Tight distortion bounds for distributed metric voting on a line**
A. A. Voudouris
Operations Research Letters, volume 51(3), pages 266–269, 2023

[J28] **Heterogeneous facility location with limited resources**
Argyrios Deligkas, A. Filos-Ratsikas, and A. A. Voudouris
Games and Economic Behavior, volume 139, pages 200–215, 2023

[J27] **On discrete truthful heterogeneous two-facility location**
P. Kanellopoulos, A. A. Voudouris, and R. Zhang
SIAM Journal on Discrete Mathematics, volume 37(2), pages 779–799, 2023

[J26] **The metric distortion of multiwinner voting**
I. Caragiannis, N. Shah, and A. A. Voudouris
Artificial Intelligence, volume 313, article 103802, 2022

[J25] **Multi-Agent Systems for Computational Economics and Finance**
M. Kampouridis, P. Kanellopoulos, M. Kyropoulou, T. Melissourgos, and A. A. Voudouris
AI Communications, volume 35(4), pages 369-380, 2022

[J24] **The distortion of distributed metric social choice**
E. Anshelevich, A. Filos-Ratsikas, and A. A. Voudouris
Artificial Intelligence, volume 208, article 103713, 2022

[J23] **A few queries go a long way: Information-distortion tradeoffs in matching**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
Journal of Artificial Intelligence Research, volume 74, pages 227-261, 2022

[J22] **Bounding the inefficiency of compromise in opinion formation**
I. Caragiannis, P. Kanellopoulos, and A. A. Voudouris
Algorithmica, volume 84(1), pages 234–271, 2022

[J21] **Optimally deceiving a learning leader in Stackelberg games**
G. Birmpas, J. Gan, A. Hollender, F. J. Marmolejo-Cossio, N. Rajgopal, and A. A. Voudouris
Journal of Artificial Intelligence Research, volume 72, pages 507–531, 2021

[J20] **Distortion in Social Choice Problems: An annotated reading list**
E. Anshelevich, A. Filos-Ratsikas, N. Shah, and A. A. Voudouris
SIGecom Exchanges, volume 19(1), pages 12–14, 2021

[J19] **Schelling games on graphs**
A. Agarwal, E. Elkind, J. Gan, A. Igarashi, W. Suksompong, and A. A. Voudouris
Artificial Intelligence, volume 301, article 103576, 2021

[J18] **Modified Schelling games**
P. Kanellopoulos, M. Kyropoulou, and A. A. Voudouris
Theoretical Computer Science, volume 880, pages 1–19, 2021

[J17] **Welfare guarantees in Schelling segregation**
M. Bullinger, W. Suksompong, and A. A. Voudouris
Journal of Artificial Intelligence Research, volume 71, pages 143–174, 2021

[J16] **Peeking behind the ordinal curtain: Improving distortion via cardinal queries**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
Artificial Intelligence, volume 296, article 103488, 2021

[J15] **Maximum Nash welfare and other stories about EFX**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, A. Hollender, and A. A. Voudouris
Theoretical Computer Science, volume 863, pages 69–85, 2021

[J14] **The efficiency of resource allocation mechanisms for budget-constrained users**
I. Caragiannis and A. A. Voudouris
Mathematics of Operations Research, volume 46(2), pages 503–523, 2021

[J13] **Protecting elections by recounting ballots**
E. Elkind, J. Gan, S. Obraztsova, Z. Rabinovich, and A. A. Voudouris
Artificial Intelligence, volume 290, article 103401, 2021

[J12] **Simple combinatorial auctions with budget constraints**
A. A. Voudouris
Theoretical Computer Science, volume 842, pages 6–17, 2020

[J11] **Almost envy-freeness in group resource allocation**
M. Kyropoulou, W. Suksompong, and A. A. Voudouris
Theoretical Computer Science, volume 841, pages 110–123, 2020

[J10] **How effective can simple ordinal peer grading be?**
I. Caragiannis, G. A. Krimpas, and A. A. Voudouris
ACM Transactions on Economics and Computation, volume 8, issue 3, article 16, 2020
Special issue on selected papers from EC 2016

[J9] **The distortion of distributed voting**
A. Filos-Ratsikas, E. Micha, and A. A. Voudouris
Artificial Intelligence, volume 286, article 103343, 2020

[J8] **Energy-aware tree network formation among computationally weak nodes**
A. Madhja, S. Nikoletseas, and A. A. Voudouris

Computer Networks, volume 168, article 107068, 2020

[J7] **Envy-freeness in house allocation problems**
J. Gan, W. Suksompong, and A. A. Voudouris
Mathematical Social Sciences, volume 101, pages 104–106, 2019

[J6] **Adaptive wireless power transfer in ad hoc networks**
A. Madhja, S. Nikoletseas, and A. A. Voudouris
Computer Networks, volume 152, pages 87–97, 2019

[J5] **A note on the efficiency of position mechanisms with budget constraints**
A. A. Voudouris
Information Processing Letters, volume 143, pages 28–33, 2019

[J4] **Optimizing positional scoring rules for rank aggregation**
I. Caragiannis, X. Chatzigeorgiou, G. A. Krimpas, and A. A. Voudouris
Artificial Intelligence, volume 267, pages 58–77, 2019

[J3] **Near-optimal asymmetric binary matrix partitions**
F. Abed, I. Caragiannis, and A. A. Voudouris
Algorithmica, volume 80(1), pages 48–72, 2018

[J2] **Efficiency and complexity of price competition among single-product vendors**
I. Caragiannis, X. Chatzigeorgiou, P. Kanellopoulos, G. A. Krimpas, N. Protopapas, A. A. Voudouris
Artificial Intelligence, volume 248, pages 9–25, 2017

[J1] **Welfare guarantees for proportional allocations**
I. Caragiannis and A. A. Voudouris
Theory of Computing Systems, volume 59(4), pages 581–599, 2016
Special issue on selected papers from SAGT 2014/2015

Conference paper publications

[C46] **Truthful facility location with candidate locations and limited resources**
P. Kanellopoulos and A. A. Voudouris
28th European Conference on Artificial Intelligence (ECAI), 2025

[C45] **Constrained truthful obnoxious two-facility location with optional preferences**
P. Kanellopoulos and A. A. Voudouris
18th International Symposium on Algorithmic Game Theory (SAGT), 2025

[C44] **Metric distortion under group-fair objectives**
G. Amanatidis, E. Anshelevich, C. Jerrett, and A. A. Voudouris
18th International Symposium on Algorithmic Game Theory (SAGT), 2025

[C43] **Utilitarian distortion with predictions**
A. Filos-Ratsikas, G. Kalantzis, and A. A. Voudouris
26th ACM Conference on Economics and Computation (EC), 2025

[C42] **Optimal metric distortion for matching on the line**
A. Filos-Ratsikas, V. Gkatzelis, M. Latifian, E. Rewinski, and A. A. Voudouris
34th International Joint Conference on Artificial Intelligence (IJCAI), 2025

[C41] **Variety-seeking jump games on graphs**
L. Narayanan, J. Opatrny, S. Tummala, and A. A. Voudouris

34th International Joint Conference on Artificial Intelligence (IJCAI), 2025

[C40] **Agent-constrained truthful facility location games**
A. Deligkas, M. Lotfi, and A. A. Voudouris
17th Symposium on Algorithmic Game Theory (SAGT), 2024

[C39] **The distortion of threshold approval matching**
M. Latifian and A. A. Voudouris
33rd International Joint conference on Artificial Intelligence (IJCAI), 2024

[C38] **Truthful interval covering**
A. Deligkas, A. Filos-Ratsikas, and A. A. Voudouris
33rd International Joint conference on Artificial Intelligence (IJCAI), 2024

[C37] **Improved metric distortion via threshold approvals**
E. Anshelevich, A. Filos-Ratsikas, C. Jerrett, A. A. Voudouris
38th AAAI Conference on Artificial Intelligence (AAAI), 2024

[C36] **Truthful two-facility location with candidate locations**
P. Kanellopoulos, A. A. Voudouris, and R. Zhang
16th International Symposium on Algorithmic Game Theory (SAGT), 2023

[C35] **Settling the distortion of distributed facility location**
A. Filos-Ratsikas, P. Kanellopoulos, A. A. Voudouris, and R. Zhang
22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2023

[C34] **Revisiting the distortion of distributed voting**
A. Filos-Ratsikas and A. A. Voudouris
22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2023

[C33] **Don't roll the dice, ask twice: The two-query distortion of matching problems and beyond**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
36th Conference on Neural Information Processing Systems (NeurIPS), 2022

[C32] **Not all strangers are the same: The effect of tolerance in Schelling games**
P. Kanellopoulos, M. Kyropoulou, and A. A. Voudouris
47th International Symposium on Mathematical Foundations of Computer Science (MFCS), 2022

[C31] **On discrete truthful heterogeneous two-facility location**
P. Kanellopoulos, A. A. Voudouris, and R. Zhang
31st International Joint Conference on Artificial Intelligence (IJCAI), 2022

[C30] **Fair division of indivisible goods: A survey**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
31st International Joint Conference on Artificial Intelligence (IJCAI), 2022

[C29] **Optimizing mixed-asset portfolios involving REITs**
F. Z. Habbab, M. Kampouridis, and A. A. Voudouris
IEEE Symposium on Computational Intelligence for Financial Engineering and Economics (CIFEr), 2022

[C28] **The metric distortion of multiwinner voting**
I. Caragiannis, N. Shah, and A. A. Voudouris
36th AAAI Conference on Artificial Intelligence (AAAI), 2022

[C27] **Heterogeneous facility location with limited resources**
Argyrios Deligkas, A. Filos-Ratsikas, and A. A. Voudouris

36th AAAI Conference on Artificial Intelligence (AAAI), 2022

[C26] **The distortion of distributed social choice**
E. Anshelevich, A. Filos-Ratsikas, and A. A. Voudouris
17th Conference on Web and Internet Economics (WINE), 2021

[C25] **Approximate mechanism design for distributed facility location**
A. Filos-Ratsikas and A. A. Voudouris
14th International Symposium on Algorithmic Game Theory (SAGT), 2021

[C24] **Distortion in social choice problems: The first 15 years and beyond** (survey)
E. Anshelevich, A. Filos-Ratsikas, N. Shah, and A. A. Voudouris
30th International Joint Conference on Artificial Intelligence (IJCAI), 2021

[C23] **A few queries go a long way: Information-distortion tradeoffs in matching**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
35th AAAI Conference on Artificial Intelligence (AAAI), 2021

[C22] **Welfare guarantees in Schelling segregation**
M. Bullinger, W. Suksompong, and A. A. Voudouris
35th AAAI Conference on Artificial Intelligence (AAAI), 2021

[C21] **Optimally deceiving a learning leader in Stackelberg games**
G. Birmpas, J. Gan, A. Hollender, F. J. Marmolejo-Cossio, N. Rajgopal, and A. A. Voudouris
34th Conference on Neural Information Processing Systems (NeurIPS), 2020

[C20] **Modified Schelling games**
P. Kanellopoulos, M. Kyropoulou, and A. A. Voudouris
13th International Symposium on Algorithmic Game Theory (SAGT), 2020

[C19] **Maximum Nash welfare and other stories about EFX**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, A. Hollender, and A. A. Voudouris
29th International Joint Conference on Artificial Intelligence (IJCAI), 2020

[C18] **Swap stability in Schelling games on graphs**
A. Agarwal, E. Elkind, J. Gan, and A. A. Voudouris
34th AAAI Conference on Artificial Intelligence (AAAI), 2020

[C17] **Peeking behind the ordinal curtain: Improving distortion via cardinal queries**
G. Amanatidis, G. Birmpas, A. Filos-Ratsikas, and A. A. Voudouris
34th AAAI Conference on Artificial Intelligence (AAAI), 2020

[C16] **The distortion of distributed voting**
A. Filos-Ratsikas, E. Micha, and A. A. Voudouris
12th International Symposium on Algorithmic Game Theory (SAGT), 2019

[C15] **Protecting elections by recounting ballots**
E. Elkind, J. Gan, S. Obraztsova, Z. Rabinovich, and A. A. Voudouris
28th International Joint Conference on Artificial Intelligence (IJCAI), 2019

[C14] **Schelling games on graphs**
E. Elkind, J. Gan, A. Igarashi, W. Suksompong, and A. A. Voudouris
28th International Joint Conference on Artificial Intelligence (IJCAI), 2019

[C13] **Almost envy-freeness in group resource allocation**
M. Kyropoulou, W. Suksompong, and A. A. Voudouris

28th International Joint Conference on Artificial Intelligence (IJCAI), 2019

[C12] **Peer-to-peer energy-aware tree network formation**
A. Madhja, S. Nikoletseas, D. Tsolovos, and A. A. Voudouris
16th ACM International Symposium on Mobility Management and Wireless Access (MOBIWAC), 2018

[C11] **Mobility-aware, adaptive algorithms for wireless power transfer in ad hoc networks**
A. Madhja, S. Nikoletseas, and A. A. Voudouris
14th International Symposium on Algorithmics for Wireless Sensor Networks (ALGOSENSORS), 2018

[C10] **Adaptive wireless power transfer in mobile ad hoc networks**
A. Madhja, S. Nikoletseas, and A. A. Voudouris
14th International Conference on Distributed Computing in Sensor Systems (DCOSS), 2018

[C9] **The efficiency of resource allocation mechanisms for budget-constrained users**
I. Caragiannis and A. A. Voudouris
19th ACM Conference on Economics and Computation (EC), 2018

[C8] **Bounding the inefficiency of compromise**
I. Caragiannis, P. Kanellopoulos, and A. A. Voudouris
26th International Joint Conference on Artificial Intelligence (IJCAI), 2017

[C7] **Optimizing positional scoring rules for rank aggregation**
I. Caragiannis, X. Chatzigeorgiou, G. A. Krimpas, and A. A. Voudouris
31st AAAI Conference on Artificial Intelligence (AAAI), 2017

[C6] **How effective can simple ordinal peer grading be?**
I. Caragiannis, G. A. Krimpas, and A. A. Voudouris
17th ACM Conference on Economics and Computation (EC), 2016
Invited to a special issue of ACM TEAC with the best papers from EC 2016

[C5] **co-rank: an online tool for collectively deciding efficient rankings among peers**
I. Caragiannis, G. A. Krimpas, M. Panteli, and A. A. Voudouris
30th AAAI Conference on Artificial Intelligence (AAAI), 2016

[C4] **Near-optimal asymmetric binary matrix partitions**
F. Abed, I. Caragiannis, and A. A. Voudouris
40th International Symposium on Mathematical Foundations of Computer Science (MFCS), 2015

[C3] **Efficiency and complexity of price competition among single-product vendors**
I. Caragiannis, X. Chatzigeorgiou, P. Kanellopoulos, G. A. Krimpas, N. Protopapas, A. A. Voudouris
24th International Joint Conference on Artificial Intelligence (IJCAI), 2015

[C2] **Aggregating partial rankings with applications to peer grading in massive online open courses**
I. Caragiannis, G. A. Krimpas, and A. A. Voudouris
14th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2015

[C1] **Welfare guarantees for proportional allocations**
I. Caragiannis and A. A. Voudouris
7th International Symposium on Algorithmic Game Theory (SAGT), 2014
Invited to a special issue of TOCS with the best papers from SAGT 2014-2015

Teaching experience

School of Computer Science and Electronic Engineering, University of Essex

- Supervisor of the module *CE150: Introduction to Programming with C*
  (Autumn Term 2020-2024)
- Supervisor of the module *CF961: Introduction to Financial Market Analysis*
  (Autumn Term 2020-2024)
- Team supervisor for the module *CE101: Team Project Challenge*
  (Full year 2021-2025)

Oriel College, University of Oxford

- Instructor for the course *Introduction to Algorithmic Game Theory*
  (Summer school organised by CBL-international, July 2019)

Department of Computer Science, University of Oxford

- Tutor for the course *Computational Game Theory*
  (Michaelmas term 2018)

Department of Computer Engineering and Informatics, University of Patras

- Teaching Assistant for the course *Computational Complexity*
  (Spring 2014, 2018)
- Teaching Assistant for the course *Economic Theory and Algorithms*
  (Fall 2013 – 2017)
- Teaching Assistant for the course *Symbolic Programming Lab*
  (Spring 2011 – 2012)

Research-oriented student supervision

Georgios Kalantzis (September 2024 – Today)

- PhD in Computer Science, University of Edinburgh (external)
- Area of research: *Distortion in social choice problems*
- Co-supervised with Aris Filos-Ratsikas
- Collaboration led to publication [C43]

Rongsen Zhang (October 2020 – May 2024)

- PhD in Computer Science, University of Essex
- Thesis: *Mechanism design without money for heterogeneous and distributed facility location problems*
- Co-supervised with Panagiotis Kanellopoulos
- Collaboration led to publications [C31], [C35], [C36], [J27], [J35], [J38]

Mohammad Lotfi (May 2023 – May 2024)

- Remote undergraduate summer project, Sharif University of Technology (external)

- Collaboration led to publications [J34], [C40], [J39]

Aishwarya Agarwal (June – September 2019)

- MSc in Mathematics and Foundations of Computer Science, University of Oxford
- Thesis: *Schelling segregation: A game-theoretic analysis*
- Co-supervised with Prof Edith Elkind
- Collaboration led to publications [C18], [J19]

Community service

Organizer:

- 2025 Workshop on Fair Resource Allocation: Concepts, Algorithms, and Complexity (in conjunction with ICALP 2025)
- 2023 Workshop on Fair Resource Allocation: Concepts, Algorithms, and Complexity (in conjunction with SAGT 2023)
- 15th International Symposium on Algorithmic Game Theory (SAGT 2022; at University of Essex)
- 2021 Workshop on Fair Resource Allocation: Concepts, Algorithms, and Complexity (in conjunction with EC 2021)
- Workshop on the Distortion and Information-Efficiency Trafeoffs (in conjunction with EC 2020)
- Workshop on Theoretical Aspects of Fairness (in conjunction with ICALP 2019)

Editorial Board member:

- Information Processing Letters (July 2024 – today)
- Theoretical Computer Science (January 2025 - today)

Editor:

- Special Issue on Economics and Computations (Information Processing Letters)
- Special Issue of SAGT 2022 (Theoretical Computer Science)

PC Chair:

- 15th International Symposium on Algorithmic Game Theory (SAGT), 2022

SPC member:

- AAAI 2026 (AI Alignment Track)
- AAMAS 2025
- WINE 2024

PC member:

- AAAI (2020, 2021, 2022, 2024, 2025, 2026)
- AAMAS (2020, 2023, 2024)
- ACM EC (2020, 2021, 2023, 2025)

- ECAI 2020

- GAIW (2020, 2022)

- ICML 2021

- IEEE CIFEr 2022

- IJCAI (2018[*], 2019, 2020, 2023, 2024)

- IJCAI Survey Track 2022

- NeurIPS 2020

- SAGT 2025

- WINE 2022

Reviewer (journals):

- ACM Transactions on Economics and Computation (TEAC)

- Algorithmica

- Artificial Intelligence (ARTINT)

- Discrete Applied Mathematics (DAM)

- Games and Economic Behavior (GEB)

- INFORMS Journal on Computing (IJOC)

- Information Processing Letters (IPL)

- Journal of Artificial Intelligence Research (JAIR)

- Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS)

- Journal of the ACM (JACM)

- Mathematics of Operations Research (MOR)

- Management Science (MNSC)

- PNAS Nexus

- Social Choice and Welfare (SCWE)

- Theoretical Computer Science (TCS)

Reviewer (conferences): ACM EC 2017, ADT 2021, AAMAS 2015, COMSOC 2018, ESA (2019, 2025), ICALP (2015, 2019), IJCAI 2017, ISAAC (2018, 2021), MFCS 2020, SODA (2017, 2022, 2024), SAGT (2017, 2019, 2020, 2021), SIROCCO 2019, STOC 2025, TAMC 2020, WINE (2015, 2018, 2019, 2020, 2021)

Reviewer (grant proposals):

- Engineering and Physical Sciences Research Council (UK); Member of the EPSRC Peer Review College

- French National Research Agency (ANR)

- Narodowe Centrum Nauki (Poland)

PhD viva examinations:

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[*]Recognised as a distinguished PC member.

- Tianze Wei (City University of Hong Kong, 2025; Supervisor: Minming Li)
- Xinpeng Long (University of Essex, 2024; Supervisor: Michael Kampouridis)
- Ji Qi (King's College London, 2022; Supervisor: Carmine Ventre)

Talks and presentations

(invited) 2025 Archimedes Workshop on Algorithmic Game Theory
- Title: *Utilitarian distortion with predictions*
- July 2025

(invited) Algorithms seminar, Southern Denmark University
- Title: *Information-distortion tradeoffs in social choice*
- July 2025

(conference) 17*th International Symposium on Algorithmic Game Theory (SAGT)*
- Title: *Agent-constrained truthful facility location games*
- September 2024

(invited) Departmental research seminar, Vrije Universiteit Amsterdam
- Title: *Information-distortion tradeoffs in social choice and matching*
- May 2023

(invited) Computational Complexity and Game Theory Group Seminar, University of Aarhus
- Title: *The distortion of distributed voting*
- February 2023

(invited) COMSOC Video Seminar
- Title: *The metric distortion of multiwinner voting*
- October 2022

(invited) UK Economics and Computation seminar
- Title: *Information-distortion tradeoffs in social choice and matching*
- March 2022

(conference) 36*th AAAI Conference on Artificial Intelligence (AAAI)*
- Title: *The metric distortion of multiwinner voting*
- February 2022

(conference) 36*th AAAI Conference on Artificial Intelligence (AAAI)*
- Title: *Heterogeneous facility location with limited resources*
- February 2022

(conference) 14*th International Symposium on Algorithmic Game Theory (SAGT)*
- Title: *Approximate mechanism design for distributed facility location*
- September 2021

(conference) 30*th International Joint Conference on Artificial Intelligence (IJCAI)*
- Title: *Distortion in social choice problems: The first 15 years and beyond*
- August 2021

(conference) 13*th International Symposium on Algorithmic Game Theory (SAGT)*

- Title: *Modified Schelling games*
- September 2020

(invited) *Workshop on the Distortion and Information-Efficiency Tradeoffs (DIET)*
- Title: *The distortion of distributed voting and facility location*
- July 2020

(invited) Economics and Computation Seminar, University of Liverpool
- Title: *Modified Schelling games*
- September 2020

(invited) AI for Decision Making seminar, University of Essex
- Title: *Peeking behind the ordinal curtain: Improving distortion via cardinal queries*
- February 2020

(invited) Algorithmic game theory at Oxford: A mini-workshop, University of Oxford
- Title: *Peeking behind the ordinal curtain: Improving distortion via cardinal queries*
- September 2019

(conference) 28*th International Joint Conference on Artificial Intelligence (IJCAI)*
- Title: *Schelling games on graphs*
- August 2019

(poster and lightning talk) *Twenty Years of the Price of Anarchy Workshop (20PoA)*
- Title: *The efficiency of resource allocation mechanisms for budget-constrained users*
- July 2019

(poster and lightning talk) 14*th Conference on Web and Internet Economics (WINE)*
- Title: *Truthful mechanisms for ownership transfer with expert advice*
- December 2018

(conference) 19*th ACM Conference on Economics and Computation (EC)*
- Title: *The efficiency of resource allocation mechanisms for budget-constrained users*
- June 2018

(workshop) *Workshop on Opinion Aggregation, Dynamics, and Elicitation*
- Title: *Truthful mechanisms for ownership transfer with expert advice*
- June 2018

(workshop) 12*th Athens Colloquium on Algorithms and Complexity (ACAC)*
- Title: *The efficiency of resource allocation mechanisms for budget-constrained users*
- August 2017

(conference) 31*st AAAI Conference on Artificial Intelligence (AAAI)*
- Title: *Optimizing positional scoring rules for rank aggregation*
- February 2017

(workshop) 11*th Athens Colloquium on Algorithms and Complexity (ACAC)*
- Title: *How effective can simple ordinal peer grading be?*
- August 2016

(conference) 17*th ACM Conference on Economics and Computation (EC)*

- Title: *How effective can simple ordinal peer grading be?*
- July 2016

(demo and poster) 30*th AAAI Conference on Artificial Intelligence (AAAI)*
- Title: *co-rank: an online tool for collectively deciding efficient rankings among peers*
- July 2016

(conference) 40*th International Symposium on Mathematical Foundations of Computer Science (MFCS)*
- Title: *Near-optimal asymmetric binary matrix partitions*
- August 2015

(invited) *First Algorithmic Game Theory Athens Workshop (AGaThA)*
- Title: *Near-optimal asymmetric binary matrix partitions*
- May 2015

(workshop) 10*th Athens Colloquium on Algorithms and Complexity (ACAC)*
- Title: *Aggregating partial rankings with applications to peer grading in MOOCs*
- August 2015

(conference) 7*th International Symposium on Algorithmic Game Theory (SAGT)*
- Title: *Welfare guarantees for proportional allocations*
- October 2014

(workshop) 9*th Athens Colloquium on Algorithms and Complexity (ACAC)*
- Title: *Welfare guarantees for proportional allocations*
- August 2014