Charalampos Kokkalis

PHD STUDENT · UNIVERSITY OF EDINBURGH, LFCS

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Education

University of Edinburgh *Edinburgh, UK*
PHD IN COMPUTER SCIENCE *Oct 2023 - present*
- Research Topic: Computational Problems in Auction Theory
- Advisor: Aris Filos-Ratsikas

University of Oxford *Oxford, UK*
MCOMPSCI COMPUTER SCIENCE *Sep 2021 - Jun 2022*
- Thesis: A Study of Variants of PPA-Complete Problems (Distinction)
- Advisor: Paul Goldberg

University of Oxford *Oxford, UK*
BA COMPUTER SCIENCE *Sep 2018 - Jul 2021*
- Thesis: Application of Association Schemes in Deriving Linear Programming Bounds for the Size of Codes (Distinction)
- Advisor: Dmitrii Pasechnik

Publications

2. Filos-Ratsikas A., Giannakopoulos Y., Hollender A., Kokkalis C.: **Equilibrium Computation in First-Price Auctions with Correlated Priors**. To appear in the 26th ACM Conference on Economics and Computation **(EC'25)**.

1. Filos-Ratsikas A., Giannakopoulos Y., Hollender A., Kokkalis C.: **On the Computation of Equilibria in Discrete First-Price Auctions**. 25th ACM Conference on Economics and Computation **(EC'24)**.

Professional Experience

2022-2023	**PolyAI Technologies Inc.**, Machine Learning Engineer	*London, UK*
Summer 2021	**Amazon Inc.**, Software Development Engineering Intern	*London, UK*
2019-2020	**Algora PBC.**, Software Engineering Summer Intern	*Boston, US (Remote)*

Teaching Experience

Spring 2025	**Algorithmic Game Theory and its Applications**, Course Tutor and Marker	*Univ. of Edinburgh*
Fall 2024	**Final Year Student Projects**, Project co-Supervisor	*Univ. of Edinburgh*
Spring 2024	**Introduction to Algorithms and Data Structures II**, Exam Marker	*Univ. of Edinburgh*
Fall 2023	**Introduction to Algorithms and Data Structures I**, Coursework Marker	*Univ. of Edinburgh*
Summer 2022	**Cryptology**, Teaching Assistant	*CTY Greece*
Spring 2022	**Artificial Intelligence**, Practicals Demonstrator	*Univ. of Oxford*
Fall 2021	**Machine Learning**, Practicals Demonstrator	*Univ. of Oxford*

Student supervision

2024-2025	**Khalid Belhadj**, *Equilibrium Computation in Autobidding Auctions* (co-supervised with Aris Filos-Ratsikas)	*Univ. of Edinburgh*
2024-2025	**Nilesh Gurumurthi**, *Learning in Repeated First-Price Auctions* (co-supervised with Aris Filos-Ratsikas)	*Univ. of Edinburgh*

Honors and Awards

2024-2025	**Educational Grant**, awarded by the A.G.Leventis Foundation
2024	**Grant to attend ADFOCS'24**, awarded by the Max Planck Institute for Informatics
2024-2027	**DTA Scholarship**, awarded by the EPSRC
2021-2022	**Open Exhibitioner**, awarded by Jesus College, Oxford
2018-2022	**Reuben Scholar**, awarded by the Reuben Foundation

Other Experience

INVITED TALKS AND PRESENTATIONS

May 2025	**Formal Analysis, Theory and Algorithms (FATA) Seminar**, Invited Talk	*Univ. of Glasgow*
May 2025	**Edinburgh CS/Econ Event**, Invited Talk	*Univ. of Edinburgh*
April 2025	**Archimedes Theory Seminar**, Invited Talk	*Archimedes R.U.*
June 2024	**WALE 2024**, Poster Presentation	*Kefalonia, Greece*

REVIEWING

2025	**ESA 2025**, Subreviewer

ORGANIZATIONAL

December 2024	**WINE 2024**, Local Support Team	*Univ. of Edinburgh*
2023 - present	**Edinburgh CS/Econ Seminar**, Organizer	*Univ. of Edinburgh*