

# Evi Micha

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## Research Interests

Computational Social Choice, Algorithmic Fairness, Voting, Mechanism Design, Fair Division, Multiagent Resource Allocation, Algorithmic Game Theory, Incentives in Machine Learning

## Education & Work Experience

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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sept 2021 - Dec 2021 | <b>Visiting Graduate Researcher</b><br><i>Harvard University, USA</i><br>Host: Ariel Procaccia                                                                                                               |
| Mar 2021 - Today     | <b>Postgraduate Affiliate</b><br><i>Vector Institute for Artificial Intelligence</i><br><i>University of Toronto, Canada</i>                                                                                 |
| Jan 2022 - Today     | <b>Postgraduate Affiliate</b><br><i>Schwartz Reisman Institute for Technology and Society</i><br><i>University of Toronto, Canada</i>                                                                        |
| Sept 2018 - Today    | <b>Ph.D in Computer Science</b><br><i>University of Toronto, Canada</i><br>Advisor: Nisarg Shah<br>GPA: 4+/4                                                                                                 |
| Oct 2016 - July 2018 | <b>M.Sc. in Computer Science and Technology</b><br><i>University of Patras, Greece</i><br>Thesis: <i>Computational aspects of liquid democracy</i><br>Advisor: Ioannis Caragiannis<br>GPA: 9.93/10           |
| Oct 2011 - Oct 2016  | <b>Diploma in Computer Engineering and Informatics</b><br><i>University of Patras, Greece</i><br>Thesis: <i>Computational aspects of simple voting rules</i><br>Advisor: Ioannis Caragiannis<br>GPA: 8.76/10 |

## Awards & Fellowships

- *Acres Productive Technologies Inc. /Joseph Yonan Memorial Fellowship* (2021-2022)  
Department of Computer Science, University of Toronto
- *Graduate Fellow* (2020-2021)  
Schwartz Reisman Institute for Technology and Society, University of Toronto
- *Technical Chamber of Greece (TEE-TCG)* (2018)  
Award for the 2<sup>nd</sup> highest GPA in 2016 - 2017
- *Lilian Voudouri Foundation* (2017)  
Scholarship for M.Sc. studies (declined)
- *Foundation for Education and European Culture* (2017)  
Scholarship for M.Sc. studies
- *Onassis Foundation* (2017)  
Grant for attending the Onassis Foundation Science Lecture Series
- *University of Patras* (2017)  
Award for the 1<sup>st</sup> highest GPA in my class
- *Limmat Foundation of Zurich* (2016)  
Award for the 2<sup>nd</sup> highest GPA in 2016

\*All works listed below use alphabetical author ordering by the last name.

## Journal Publication

- J1. Aris Filos-Ratsikas, **Evi Micha**, and Alexandros A. Voudouris. The Distortion of Distributed Voting. *Artificial Intelligence*, Volume 286, 103343, 2020.

## Conference Publications

- C10. Ioannis Caragiannis, **Evi Micha**, and Nisarg Shah. A Little Charity Guarantees Fair Connected Graph Partitioning. *In Proc. of 36th AAAI Conference on Artificial Intelligence*, 2022. Forthcoming.
- C9. Markus Brill, Jonas Israel, **Evi Micha**, and Jannik Peters. Individual Representation in Approval-Based Committee Voting. *In Proc. of 36th AAAI Conference on Artificial Intelligence*, 2022. Forthcoming.
- C8. Safwan Hossain, **Evi Micha**, and Nisarg Shah. Fair Algorithms for Multi-Agent Multi-Armed Bandits. *In Proc. of 35th Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2021. Forthcoming.
- C7. Rupert Freeman, **Evi Micha**, and Nisarg Shah. Two-Sided Matching Meets Fair Division.

*In Proc. of 30th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 203-209, 2021.

- C6. **Evi Micha** and Nisarg Shah. Proportionally Fair Clustering Revisited. *In Proc. of 47th International Colloquium on Automata, Languages and Programming (ICALP)*, 85:1-85:16, 2020.
- C5. **Evi Micha** and Nisarg Shah. Can We Predict the Election Outcome from Sampled Votes? *In Proc. of 34th AAAI Conference on Artificial Intelligence*, pp. 2176-2183, 2020.
- C4. Safwan Hossain, **Evi Micha**, and Nisarg Shah. The Surprising Power of Hiding Information in Facility Location. *In Proc. of 34th AAAI Conference on Artificial Intelligence*, pp. 2168-2175, 2020.
- C3. Aris Filos-Ratsikas, **Evi Micha**, and Alexandros A. Voudouris. The Distortion of Distributed Voting. *In Proc. of 12th International Symposium on Algorithmic Game Theory (SAGT)*, pp. 312-325, 2019.
- C2. Ioannis Caragiannis and **Evi Micha**. A Contribution to the Critique of Liquid Democracy. *In Proc. of 28th International Joint Conference on Artificial Intelligence (IJCAI)*, 2019, pp. 116-122, 2019.
- C1. Ioannis Caragiannis and **Evi Micha**. Learning a Ground Truth Ranking Using Noisy Approval Votes. *In Proc. of 26th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 149-155, 2017.

## Invited Talks

- T4. *Fair Algorithms for Multi-Agent Multi-Armed Bandits*. Workshop on Political Economy of Reinforcement Learning (PERLS), in conjunction with NeurIPS, December 2021.
- T3. *Fair Algorithms for Multi-Agent Multi-Armed Bandits*. INFORMS Session on Fairness in Sequential Decision Making, October 2021.
- T2. *Two-Sided Matching Meets Fair Division*. Workshop on Fair Resource Allocation: Concept, Algorithms and Complexity (FairACAC), in conjunction with EC, July 2021.
- T1. *Two-Sided Matching Meets Fair Division*. International Seminar Series on Social Choice (COMSOC Video Seminar), Rump Session, September 2020.

## Professional Service

- **Reviewer (Journal):** Artificial Intelligence (ARTINT), Information Sciences, Artificial Intelligence Research (JAIR)
- **PC Member:** AAAI 2021, AAAI 2022, ITCS 2022

## Teaching

- Winter '20    **CS Teaching Assistant, *University of Toronto***  
CSC 2556: Algorithms for Collective Decision Making
- Fall '18-19    **CS Teaching Assistant, *University of Toronto***  
CSC 304: Algorithmic Game Theory and Mechanism Design
- Winter '19    **CS Teaching Assistant, *University of Toronto***  
CSC 463: Computational Complexity and Computability
- Summer '19    **CS Teaching Assistant, *University of Toronto***  
CSC 384: Introduction to Artificial Intelligence

## Industry Experience

- Sept 2016 - Febr 2017    **Business Analyst and Developer, *Cognity*, Greece**
- Jun 2016 - Aug 2016    **Software Engineer Intern, *Mytilineos SA*, Greece**
- Jul 2014 - Aug 2014    **Software Engineer Intern, *Mytilineos SA*, Greece**

## Summer School

- *The Onassis Foundation Science Lecture Series in Computer Science: “Big Data and Applications”*, Heraklion, Crete, Greece, 10-14 July 2017