

Andrea Celli

✉ andreacelli@fb.com • 🌐 <https://andcelli.github.io/> • in [andcelli](#)

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Research interests

Fields: Artificial intelligence, game theory.

Specific: Equilibrium computation, imperfect-information games, learning in games.

Employment

Postdoctoral researcher

Facebook CDS

June 2020–Present

Postdoctoral researcher

Politecnico di Milano

November 2019–May 2020

Education

Politecnico di Milano

PhD in Computer Science

Milan

2016–February 2020

Carnegie Mellon University

Visiting Scholar, PA, USA

Pittsburgh

Jan 2018–May 2018

Politecnico di Milano

MSc in Computer Science and Engineering, Grade: 110 cum laude/110

Milan

2014–2016

Politecnico di Milano

BSc in Computer Science and Engineering, Grade: 110 cum laude/110

Milan

2011–2014

Research Experience

- Carnegie Mellon University, with Prof. Tuomas Sandholm Jan 2018–May 2018
 - Equilibrium computation and optimization
- Politecnico di Milano, with Prof. Nicola Gatti 2016–present
 - Equilibrium computation, optimization, learning in games

Publications

- Conference Papers.....
- [C1] **A. Celli**, S. Coniglio, N. Gatti, “Bayesian persuasion with sequential games,” in *AAAI*, 2020.
 - [C2] M. Castiglioni, **A. Celli**, N. Gatti, “Persuading voters: It’s easy to whisper, it’s hard to speak loud,” in *AAAI*, 2020.
 - [C3] **A. Celli**, A. Marchesi, T. Bianchi, N. Gatti, “Learning to correlate in multi-player general-sum sequential games,” in *NeurIPS*, 2019.
 - [C4] **A. Celli**, S. Coniglio, N. Gatti, “Computing optimal ex ante correlated equilibria in two-player sequential games,” in *AAMAS*, 2019.
 - [C5] **A. Celli**, G. Romano, N. Gatti, “Personality-based representations of imperfect-recall games,” in *AAMAS (Extended Abstract)*, 2019.
 - [C6] G. Farina, **A. Celli**, N. Gatti, T. Sandholm, “Ex ante coordination and collusion in zero-sum multi-player extensive-form games,” in *NeurIPS*, 2018.

- [C7] **A. Celli** and N. Gatti, "Computational results for extensive-form adversarial team games," in *AAAI*, 2018.
- [C8] **A. Celli**, A. Marchesi, N. Gatti, "On the complexity of nash equilibrium reoptimization," in *UAI*, 2017.
- [C9] N. Basilico, **A. Celli**, G. De Nittis, N. Gatti, "Team-maxmin equilibrium: Efficiency bounds and algorithms," in *AAAI*, 2017.
- [C10] N. Basilico, **A. Celli**, G. D. Nittis, N. Gatti, "Coordinating multiple defensive resources in patrolling games with alarm systems," in *AAMAS*, 2017.

Journal Papers.....

- [J1] **A. Celli** and A. Marchesi, "Learning dynamics in limited-control repeated games," *Intelligenza Artificiale*, 2018.
- [J2] N. Basilico, **A. Celli**, G. D. Nittis, N. Gatti, "Computing the team-maxmin equilibrium in single-team single-adversary team games," *Intelligenza Artificiale*, 2017.

Workshop Papers.....

- [W1] G. Farina, **A. Celli**, N. Gatti, T. Sandholm, "Ex ante coordination in team games," in *AAAI, Workshop on Reinforcement Learning in Games*, 2018.
- [W2] **A. Celli** and A. Marchesi, "Nash equilibrium reoptimization is hard," in *IJCAI, Algorithmic Game Theory Workshop*, 2017.

Teaching

- Race Strategies Computation, Ferrari S.p.A. 2019
- Game Theory, Politecnico di Milano, TA 2019–2020
- Informatica A, Politecnico di Milano, TA 2019–2020
- Economics and Computation, Politecnico di Milano, TA 2018–2019
- Informatica A, Politecnico di Milano, TA 2018–2019
- Economics and Computation, Politecnico di Milano, TA 2017–2018

Honors and Awards

- Lesmo Award for the best Italian MSc Thesis in Artificial Intelligence 2017
- National Doctoral Scholarship 2016–2019
Sponsored by the Ministry of Education, Universities and Research
- Recommender Systems Challenge, Politecnico di Milano 2015
Final placement: 3rd/47

Talks

Invited Talks.....

- Bayesian Persuasion in Voting Scenarios 2019
At MAPLE'19 (Markets, Algorithms, Prediction and Learning) in Milan
- Adversarial Team Games 2017
At the International Conference of the Italian Association for Artificial Intelligence

Seminars.....

- Bayesian Persuasion 2017
At Politecnico di Milano, Permanent Itinerant Game Theory Seminars (P.I.G.S.)
- Adversarial Team Games 2017
At University of Milan-Bicocca, Permanent Itinerant Game Theory Seminars (P.I.G.S.)

Service

- Program committee: AAAI '18,'19,'20, ECAI '20, IJCAI '20. Reviewing: AAMAS 2017, IJCAI 2017, IJCAI 2019

Programming and Frameworks

- Programming languages: Python, RUST, Java, C, R, Julia
- Optimization frameworks: AMPL
- Solvers: CPLEX, Gurobi, BARON

Languages

- Italian: mother tongue
- English: proficient user
 - IELTS Academic, Overall band score 8 (level C2) 2013