Ata Atay

CONTACT INFORMATION	Department of Mathematical Economics, Finance, and Actuarial Sciences, Avinguda Diagonal, 690, Office: 2130, 08034, Barcelona, Spain.	Citizenship: Turkey Phone: +34 934021952 aatay@ub.edu sites.google.com/site/ataatay

CURRENT POSITION

Serra Húnter Assistant Professor of Economics — October 2021–
Department of Mathematical Economics, Finance and Actuarial Sciences, **University of Barcelona**.

ACADEMIC POSITIONS

Assistant Professor of Economics — March 2020–Oct 2021
Department of Economic Analysis, **UNED**.

Postdoctoral researcher — Sep 2019–Feb 2020
CEREC & CORE, **UCLouvain Saint-Louis-Bruxelles**.

Postdoctoral researcher — Oct 2017–Aug 2019
Institute of Economics, **Hungarian Academy of Sciences**.

Half-time lecturer — Feb 2018–Feb 2019
Department of Operations Research and Actuarial Sciences, **Corvinus University of Budapest**.

RESEARCH INTERESTS

Game theory, matching theory, market design, operations research.

EDUCATION

PhD in Economics, *excel·lent (summa) cum laude* — 2017
Universitat de Barcelona, Spain. *Advisor:* Marina Núñez

MSc in Advanced Mathematics — 2011
Universitat Autònoma de Barcelona, Spain.

BSc in Mathematical Engineering — 2010
Yildiz Technical University, Turkey.

ACADEMIC STAYS

Simons Laufer Mathematical Sciences Institute (SLMath) — Aug–Oct 2023
*formerly **Mathematical Science Research Institute (MSRI)***
Research member at the program
Mathematics and Computer Science of Market and Mechanism Design.

Center for Operations Research and Econometrics (CORE) — May 2019
Université catholique de Louvain
Hosts: Ana Mauleon, Vincent Vannetelbosch

University of Barcelona — Short stay (2 weeks), Feb 2019
Host: Pedro Calleja

University of Barcelona — Short stay (2 weeks), Feb 2018
Host: Marina Núñez

Tepper School of Business, Carnegie Mellon University — Jan–May 2016
Hosts: Isa Hafalir, M. Bumin Yenmez

PUBLICATIONS

1. Atay, A., A. Mauleon, S. Schopohl, and V. Vannetelbosch. Key players in network-oriented interventions, **Journal of Economic Interaction and Coordination**, 18: 879–907.

2. Atay, A., E. Bahel, and T. Solymosi (2023). Matching markets with middlemen under transferable utility, **Annals of Operations Research**, 322: 539–563.

3. Atay A., P. Calleja, and S. Soteras (2021). Open shop scheduling games, **European Journal of Operational Research**, 295: 12–21.

4. Atay A., A. Mauleon, and V. Vannetelbosch (2021). A bargaining set for roommate problems, **Journal of Mathematical Economics**, 94: 102465.

5. Atay A. and M. Núñez (2019). Multi-sided assignment games on m-partite graphs, **Annals of Operations Research**, 279: 271–290.

6. Atay A. and M. Núñez (2019). A note on the relationship between the core and stable sets in three-sided markets, **Mathematical Social Sciences**, 98: 10–14.

7. Atay A. and T. Solymosi (2018). On bargaining sets of supplier-firm-buyer games, **Economics Letters**, 167: 99–103.

8. Atay A. (2017). An alternative proof of the characterization of core stability for the assignment game, **Operations Research Letters**, 45: 217–219.

9. Atay A., F. Llerena, and M. Núñez (2016). Generalized three-sided assignment markets: core consistency and competitive prices, **TOP**, 24: 572–593.

WORKING PAPERS

1. Complementarities in childcare allocation under priorities, with Antonio Romero-Medina, August 2023.

2. Matching markets with farsighted couples, with Sylvain Funck, Ana Mauleon and Vincent Vannetelbosch, April 2023.

3. Limited farsightedness in priority-based matching, with Ana Mauleon and Vincent Vannetelbosch, December 2022.

4. School choice with farsighted students, with Ana Mauleon and Vincent Vannetelbosch, November 2022.

5. Queueing games with an endogenous number of machines, with Christian Trudeau, July 2022.

SUPERVISION OF PH.D. THESIS	**Martí Jané Ballarín**	2023–...

Topics: Computational social choice and game theory.
Co-advisor (Main advisor: Mikel Álvarez-Mozos).

TEACHING EXPERIENCE

Lecturer, University of Barcelona:

Non-linear programming and network flows	Fall 2022-...
Joint BA in Statistics together with	
Barcelona Tech-UPC (**Taught at the UPC**).	
Decision Theory (BA in Business Management)	Spring 2022-...
Mathematics 2 (BA in Business Management)	Spring 2022-...
Mathematics 2 (BA in Economics)	Spring 2022-...
Mathematics (BA in International Business)	Fall 2021-...
Mathematics 1 (BA in Economics)	Fall 2021-...
Decision Theory (BA in Business Management)	Fall 2021-...

Lecturer, UNED:

Introduction to Macroeconomics (BA in Economics)	Spring 2021

	Introduction to Macroeconomics (BA in Economics)	Spring 2020

Lecturer, Corvinus University of Budapest:

Market Design (BA in Economics)	Fall 2018
Operations Research (BA in Economics)	Spring 2018

Teaching Assistant, University of Barcelona:

Game Theory (BA in Business Administration)	Fall 2016

<table>
<tr><td>GRANTS</td><td>"Areas Emergents" Research Grant of UB
as co-PI of AS017672 Research Project (13.5K EUR)
<i>"Networks in societies: information, elections, and financial markets"</i></td><td>July 2022–Dec 2023</td></tr>
<tr><td></td><td>Hungarian National Research, Development, and Innovation Office
PD-128348 Individual Project (15.6 M HUF)</td><td>2018–2021</td></tr>
<tr><td></td><td>Barcelona Economic Analysis Team
Travel Grant (1K EUR)</td><td>June 2022</td></tr>
<tr><td></td><td>Cost Action European Network for Game Theory (CA 16228)
Short Term Scientific Mission Grant (1.5K EUR)</td><td>2019</td></tr>
<tr><td></td><td>Cost Action European Network for Game Theory (CA 16228)
Short Term Scientific Mission Grant (1.2K EUR)</td><td>2019</td></tr>
<tr><td></td><td>Cost Action IC1205 Short Term Scientific Mission Grant</td><td>2015</td></tr>
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<tr><td>PARTICIPATION IN
RESEARCH
PROJECTS</td><td>Distribución equitativa en problemas de reparto, coaliciones, redes y mercados
the Spanish Ministry of Science, Innovation, and Universities
<i>PIs: Marina Núñez and Carles Rafels</i></td><td>Feb 2023– Aug 2024</td></tr>
<tr><td></td><td>Networks in societies: information, elections, and financial markets"
University of Barcelona "Areas Emergents" Research Grants
<i>As co-PI with Oriol Tejada (PI)</i></td><td>July 2022–Dec 2023</td></tr>
<tr><td></td><td>Social and economic network formation under limited farsightedness: theory and applications
the Belgian French speaking community ARC project 15/20-072
<i>PIs: Ana Mauleon and Vincent Vannetelbosch</i></td><td>Sep 2019–Feb 2020</td></tr>
<tr><td></td><td>Game Theory Working Group
Spanish Society of Statistics and Operations Research (SEIO)
<i>PI: Encarnación Algaba</i></td><td>Feb 2019–</td></tr>
<tr><td></td><td>Heuristic problem solving in matching mechanisms
Hungarian Academy of Sciences
<i>PI: Péter Biró</i></td><td>Sep 2017–Feb 2020</td></tr>
<tr><td></td><td>Game theory and assignment markets
Consolidated research group (2014SGR40) by Generalitat de Catalunya
<i>PI: Marina Núñez</i></td><td>2014–2017</td></tr>
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<tr><td>MEMBER OF
PH.D.
COMMITTEES</td><td>Pierre de Callataÿ, UCLouvain, Belgium.
<i>"Three essays on farsightedness in network formation"</i>.</td><td>June 2023</td></tr>
<tr><td></td><td>Saadia El Obadi, Universitat de Lleida, Spain.
<i>"Generalizations of assignment games and information market games"</i>.</td><td>October 2019</td></tr>
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INVITED SEMINARS	**2023:** IMW, University of Bielefeld (Germany). **2022:** QuantOM at HEC-Liège (Belgium), ORSTAT at KU Leuven (Belgium), University of Granada (Spain). **2019:** Aix-Marseille School of Economics (France), Center of Operations Research

and Econometrics at UCLouvain (Belgium), CEREC at Université Saint-Louis Brussels (Belgium), University of Barcelona (Spain).
2017: School of Government TEC Monterrey (Mexico), Centre d'Économie de la Sorbonne (France).

PRESENTATIONS **2023:** the 12th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal), the 13th Conference on Economic Design (Girona, Spain).
2022: the 33rd Stony Brook International Conference on Game Theory (Stony Brook, NY), the 12th Conference on Economic Design (Padova, Italy), the 25th Coalition Theory Network Workshop (Barcelona, Spain).
2021: International Conference on Social Choice and Voting Theory, PPE at Virginia Tech (online).
2019: the 11th Conference on Economic Design (Budapest, Hungary), SING15 (Turku, Finland), the 11th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal).
2018: the 14th Meeting of the SSCW (Seoul, South Korea), SEIO 2018 (Oviedo, Spain), University of Barcelona.
2017: the 10th Conference on Economic Design (York, UK), the 1st Catalan Economic Society Conference (Barcelona, Spain).
2016: GAMES 2016 (Maastricht, the Netherlands), SING12 (Odense, Denmark), the 13th Meeting of the SSCW (Lund, Sweden), Pennsylvania Economic Theory Conference 2016, *Poster session* (State College, PA), CMU-Pitt Economic Theory Seminar (Pittsburgh, PA).
2015: the 15th SAET Conference (Cambridge, UK), the 26th International Conference on Game Theory (Stony Brook, NY), the 9th Conference on Economic Design (Istanbul, Turkey), Match-UP 2015 (Glasgow, UK).
2014: International Workshop on Game Theory and Economic Applications *Poster session* (São Paulo, Brazil), SING 10 (Krakow, Poland).

PROFESSIONAL
ACTIVITIES
Program Committee:
2022-... the Annual University of Barcelona Game Theory Workshop.
2019: The 11th Conference on Economic Design 2019 (Budapest, Hungary).
Organizing Committee:
2022-... the Annual University of Barcelona Game Theory Workshop.
2021: The V SEIO Course on Game Theory: Algorithmic and game theoretic aspects of matching markets (Barcelona, Spain).
2019: 11th Conference on Economic Design 2019 (Budapest, Hungary).
Referee for:
Annals of Operations Research, Games and Economic Behavior, IISE Transactions, International Journal of Game Theory, International Journal of Economic Theory, Journal of Mathematical Economics, Mathematical Social Sciences, SN Business & Economics, Operational Research: An International Journal.
Reviewer for:
Mathematical Reviews.

ACCREDITATIONS **One 'sexenio' (six-year period research recognition)** for 2016-2021 by the
Catalan University Quality Assurance Agency (AQU).
Professor agregat by the
Catalan University Quality Assurance Agency (AQU).
Profesor contratado doctor by the
Spanish National Agency for Quality Assessment and Accreditation (ANECA).
Profesor ayudante doctor by the
Spanish National Agency for Quality Assessment and Accreditation (ANECA).

Professor lector by the
Catalan University Quality Assurance Agency (AQU).

LANGUAGES   Turkish (native), English (fluent), Spanish (fluent), Catalan (B1).

REFERENCES

Prof. Péter Biró
Institute of Economics
Hungarian Academy of Sciences
biro.peter@krtk.mta.hu
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School of Economics
University of Barcelona
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CEREC & CORE
UCLouvain
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