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

University of Barcelona October 2021–
Serra Húnter Assistant Professor of Economics
at the Department of Mathematical Economics, Finance and Actuarial Sciences

ACADEMIC POSITIONS

UNED March 2020–Oct 2021
Assistant Professor of Economics
at the Department of Economic Analysis

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

Institute of Economics, Hungarian Academy of Sciences Oct 2017–Aug 2019
Postdoctoral researcher at the Mechanism Design Group.

Corvinus University of Budapest Feb 2018–Feb 2019
Half-time lecturer at
the Department of Operations Research and Actuarial Sciences.

RESEARCH INTERESTS

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

EDUCATION

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

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

BSc in Mathematical Engineering 2010
Department of Mathematical Engineering, Yildiz Technical University, Turkey.

ACADEMIC STAYS

Mathematical Science Research Institute (MSRI) Aug–Nov 2023
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., E. Bahel, and T. Solymosi (2023). Matching markets with middlemen under transferable utility, **Annals of Operations Research**, 322: 539–563.

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

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

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

5. 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.

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

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

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

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

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

4. Queueing games with an endogenous number of machines, with Christian Trudeau, July 2022.
   Revised and resubmitted at **Games and Economic Behavior**.

5. Key players in bullying networks, with Ana Mauleon, Simon Schopohl and Vincent Vannetelbosch, May 2022.
   Revised and resubmitted at **Journal of Economic Interactions and Coordination**.

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:

Three undergraduate thesis supervision (BA in Economics)	Spring 2021
Three undergraduate thesis supervision (BA in Management)	Spring 2021
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

GRANTS	**"Areas Emergents" Research Grant of UB**	July 2022–Dec 2023

as co-PI of AS017672 Research Project (13.5K EUR)
"Networks in societies: information, elections, and financial markets"

Barcelona Economic Analysis Team   June 2022
Travel Grant (1K EUR)

Hungarian National Research, Development, and Innovation Office 2018–2021
PD-128348 Individual Project (15.6 M HUF)

Cost Action European Network for Game Theory (CA 16228)   2019
Short Term Scientific Mission Grant (1.5K EUR)

Cost Action European Network for Game Theory (CA 16228)   2019
Short Term Scientific Mission Grant (1.2K EUR)

Game Theory and Assignment Markets Research Group Grant   2014–2017

Summer School on Network Theory-CIGNE 2017, Roscoff, France   2017

Cost Action IC1205 Short Term Scientific Mission Grant   2015

International Workshop on Game Theory and Economic Applications   2014
São Paulo, Brazil

Enrolment grant for Advanced Mathematics Master   2010
Universitat Autònoma de Barcelona

PARTICIPATION IN
RESEARCH
PROJECTS

Distribución equitativa en problemas de reparto,
coaliciones, redes y mercados   Feb 2023– Aug 2024
the Spanish Ministry of Science, Innovation, and Universities
PIs: Marina Núñez and Carles Rafels

Networks in societies: information, elections,
and financial markets"   July 2022–Dec 2023
University of Barcelona "Areas Emergents" Research Grants
As co-PI with Oriol Tejada (PI)

Social and economic network formation under
limited farsightedness: theory and applications   Sep 2019–Feb 2020
the Belgian French speaking community ARC project 15/20-072
PIs: Ana Mauleon and Vincent Vannetelbosch

Game Theory Working Group   Feb 2019–
Spanish Society of Statistics and Operations Research (SEIO)
PI: Encarnación Algaba

Heuristic problem solving in matching mechanisms   Sep 2017–Feb 2020
Hungarian Academy of Sciences
PI: Péter Biró

Game theory and assignment markets   2014–2017
Consolidated research group (2014SGR40) by Generalitat de Catalunya
PI: Marina Núñez

MEMBER OF
PH.D.
COMMITTEES

Pierre de Callataÿ, UCLouvain, Belgium.   June 2023.
"Three essays on farsightedness in network formation".

Saadia El Obadi, Universitat de Lleida, Spain.   October 2019.
"Generalizations of assignment games and information market games".

PROFESSIONAL
ACTIVITIES

Program Committee:
2022: University of Barcelona Game Theory Workshop.

2019: The 11th Conference on Economic Design 2019 (Budapest, Hungary).
Organizing Committee:
2022: 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.

PRESENTATIONS **2023:** the 12th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal), the 13th Conference on Economic Design (Girona, Spain).
2022: HEC-Liège (QuantOM), KU Leuven (ORSTAT), 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), University of Granada.
2021: International Conference on Social Choice and Voting Theory, PPE at Virginia Tech (online).
2019: Aix-Marseille School of Economics, Université catholique de Louvain (Center of Operations Research and Econometrics), Université Saint-Louis Brussels (CEREC), University of Barcelona, 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), School of Government TEC Monterrey, Centre d'Économie de la Sorbonne, 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).

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**   **Prof. Ana Mauleon**
Institute of Economics   CEREC & CORE
Hungarian Academy of Sciences   UCLouvain
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