

CONTACT INFORMATION	Department of Mathematical Economics, Finance, and Actuarial Sciences Avinguda Diagonal, 690, Office: 2130 08034, Barcelona, Spain.	Citizenship: Turkey Phone: +34 934021952 <a href="mailto:aatay@ub.edu">aatay@ub.edu</a> <a href="https://sites.google.com/site/ataatay">sites.google.com/site/ataatay</a>
RESEARCH INTERESTS	Game theory, matching theory, market design, operations research.	
CURRENT POSITION	<b>Serra Hünter Assistant Professor of Economics</b> Department of Mathematical Economics, Finance and Actuarial Sciences, <b>University of Barcelona.</b>	October 2021–
ACADEMIC POSITIONS	<b>Assistant Professor of Economics</b> Department of Economic Analysis, <b>UNED.</b>	March 2020–Oct 2021
	<b>Postdoctoral researcher</b> CEREC & CORE, <b>UCLouvain.</b>	Sep 2019–Feb 2020
	<b>Postdoctoral researcher</b> Institute of Economics, <b>Hungarian Academy of Sciences.</b>	Oct 2017–Aug 2019
	<b>Half-time lecturer</b> Department of Operations Research and Actuarial Sciences, <b>Corvinus University of Budapest.</b>	Feb 2018–Feb 2019
EDUCATION	<b>PhD in Economics</b> , <i>excellent (summa) cum laude</i> Universitat de Barcelona, Spain.	2017 <i>Advisor: Marina Núñez</i>
	<b>MSc in Advanced Mathematics</b> Universitat Autònoma de Barcelona, Spain.	2011
	<b>BSc in Mathematical Engineering</b> Yildiz Technical University, Turkey.	2010
ACADEMIC STAYS	<b>Simons Laufer Mathematical Sciences Institute (SLMath)</b> <i>formerly Mathematical Science Research Institute (MSRI)</i> Research member at the program <i>Mathematics and Computer Science of Market and Mechanism Design.</i>	Aug–Oct 2023
	<b>Center for Operations Research and Econometrics (CORE)</b> <b>Université catholique de Louvain</b> <b>Hosts:</b> Ana Mauleon, Vincent Vannetelbosch	May 2019
	<b>University of Barcelona</b> <b>Host:</b> Pedro Calleja	Short stay (2 weeks), Feb 2019
	<b>University of Barcelona</b> <b>Host:</b> Marina Núñez	Short stay (2 weeks), Feb 2018
	<b>Tepper School of Business</b> <b>Carnegie Mellon University</b> <b>Hosts:</b> Isa Hafalir, M. Bumin Yenmez	Jan–May 2016

## PUBLICATIONS

1. Atay, A. and C. Trudeau (2024). [Queueing games with an endogenous number of machines](#), *Games and Economic Behavior*, 144: 104–125.
2. Atay, A., A. Mauleon, S. Schopohl, and V. Vannetelbosch (2023). [Key players in network-oriented interventions](#), *Journal of Economic Interaction and Coordination*, 18: 879–907.
3. Atay, A., E. Bahel, and T. Solymosi (2023). [Matching markets with middlemen under transferable utility](#), *Annals of Operations Research*, 322: 539–563.
4. Atay A., P. Calleja, and S. Soteras (2021). [Open shop scheduling games](#), *European Journal of Operational Research*, 295: 12–21.
5. Atay A., A. Mauleon, and V. Vannetelbosch (2021). [A bargaining set for roommate problems](#), *Journal of Mathematical Economics*, 94: 102465.
6. Atay A. and M. Núñez (2019). [Multi-sided assignment games on  \$m\$ -partite graphs](#), *Annals of Operations Research*, 279: 271–290.
7. 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.
8. Atay A. and T. Solymosi (2018). [On bargaining sets of supplier-firm-buyer games](#), *Economics Letters*, 167: 99–103.
9. Atay A. (2017). [An alternative proof of the characterization of core stability for the assignment game](#), *Operations Research Letters*, 45: 217–219.
10. 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. [A many-to-one job market: more about the core and the competitive salaries](#), with Marina Núñez and Tamás Solymosi, April 2024.
2. [Optimistic and pessimistic approaches for cooperative games](#), with Christian Trudeau, March 2024.
3. [Complementarities in childcare allocation under priorities](#), with Antonio Romero-Medina, August 2023.
4. [Matching markets with farsighted couples](#), with Sylvain Funck, Ana Mauleon and Vincent Vannetelbosch, April 2023.
5. [Limited farsightedness in priority-based matching](#), with Ana Mauleon and Vincent Vannetelbosch, December 2022.
6. [School choice with farsighted students](#), with Ana Mauleon and Vincent Vannetelbosch, November 2022.

SUPERVISION OF  
PH.D. THESIS

**Martí Jané Ballarín**, University of Barcelona.  
 Topics: Computational social choice and (algorithmic) game theory.  
 Co-advisor with Mikel Álvarez-Mozos.

Fall 2024–...

TEACHING EXPERIENCE	<b>Lecturer, University of Barcelona:</b>	
	Non-linear programming and network flows	Fall 2022–...
	Joint BA in Statistics together with Barcelona Tech-UPC ( <b>Taught at the UPC</b> ).	
	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–...
	<b>Lecturer, UNED:</b>	
Introduction to Macroeconomics (BA in Economics)	Spring 2021	
Introduction to Macroeconomics (BA in Economics)	Spring 2020	
<b>Lecturer, Corvinus University of Budapest:</b>		
Market Design (BA in Economics)	Fall 2018	
Operations Research (BA in Economics)	Spring 2018	
<b>Teaching Assistant, University of Barcelona:</b>		
Game Theory (BA in Business Administration)	Fall 2016	
GRANTS	<b>“Areas Emergents” Research Grant of UB</b>	July 2022–Dec 2023
	as co-PI of AS017672 Research Project (13.5K EUR) <i>“Networks in societies: information, elections, and financial markets”</i>	
	<b>Hungarian National Research, Development, and Innovation Office</b>	2018–2021
	PD-128348 Individual Project (15.6 M HUF)	
	<b>Barcelona Economic Analysis Team</b>	June 2022
	Travel Grant (1K EUR)	
	<b>Cost Action European Network for Game Theory (CA 16228)</b>	2019
	Short Term Scientific Mission Grant (1.5K EUR)	
<b>Cost Action European Network for Game Theory (CA 16228)</b>	2019	
Short Term Scientific Mission Grant (1.2K EUR)		
<b>Cost Action IC1205 Short Term Scientific Mission Grant</b>	2015	
PARTICIPATION IN RESEARCH PROJECTS	<b>Distribución equitativa en problemas de reparto, coaliciones, redes y mercados</b>	Feb 2023–Aug 2024
	the Spanish Ministry of Science, Innovation, and Universities <i>PIs: Marina Núñez and Carles Rafels</i>	
	<b>Networks in societies: information, elections, and financial markets”</b>	July 2022–Dec 2023
	University of Barcelona “Areas Emergents” Research Grants <i>As co-PI with Oriol Tejada (PI)</i>	
	<b>Social and economic network formation under limited farsightedness: theory and applications</b>	Sep 2019–Feb 2020
	the Belgian French speaking community ARC project 15/20-072 <i>PIs: Ana Mauleon and Vincent Vannetelbosch</i>	
	<b>Game Theory Working Group</b>	Feb 2019–
	Spanish Society of Statistics and Operations Research (SEIO) <i>PI: Encarnación Algaba</i>	
<b>Heuristic problem solving in matching mechanisms</b>	Sep 2017–Feb 2020	
Hungarian Academy of Sciences <i>PI: Péter Biró</i>		

	<b>Game theory and assignment markets</b>	2014–2017
	Consolidated research group (2014SGR40) by Generalitat de Catalunya	
	<i>PI: Marina Núñez</i>	
MEMBER OF	<b>Pierre de Callataÿ</b> , UCLouvain, Belgium.	June 2023
PH.D.	<i>“Three essays on farsightedness in network formation”</i> .	
COMMITTEES	<b>Saadia El Obadi</b> , Universitat de Lleida, Spain.	October 2019
	<i>“Generalizations of assignment games and information market games”</i> .	
INVITED	<b>2024:</b> University of Vigo (Spain), Lausanne Matching and Market Design Workshop,	
TALKS	HEC Lausanne (Switzerland).	
	<b>2023:</b> IMW, University of Bielefeld (Germany).	
	<b>2022:</b> QuantOM at HEC-Liège (Belgium), ORSTAT at KU Leuven (Belgium), University of Granada (Spain).	
	<b>2019:</b> 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).	
	<b>2017:</b> School of Government TEC Monterrey (Mexico), Centre d’Économie de la Sorbonne (France).	
PRESENTATIONS	<b>2024:</b> the 17th Meeting of the SSCW (Paris, France), SING19 (Besançon, France).	
	<b>2023:</b> the 12th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal), the 13th Conference on Economic Design (Girona, Spain).	
	<b>2022:</b> 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).	
	<b>2021:</b> International Conference on Social Choice and Voting Theory, PPE at Virginia Tech (online).	
	<b>2019:</b> the 11th Conference on Economic Design (Budapest, Hungary), SING15 (Turku, Finland), the 11th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal).	
	<b>2018:</b> the 14th Meeting of the SSCW (Seoul, South Korea), SEIO 2018 (Oviedo, Spain), University of Barcelona.	
	<b>2017:</b> the 10th Conference on Economic Design (York, UK), the 1st Catalan Economic Society Conference (Barcelona, Spain).	
	<b>2016:</b> GAMES 2016 (Maastricht, the Netherlands), SING12 (Odense, Denmark), the 13th Meeting of the SSCW (Lund, Sweden), Pennsylvania Economic Theory Conference 2016, <i>Poster session</i> (State College, PA), CMU-Pitt Economic Theory Seminar (Pittsburgh, PA).	
	<b>2015:</b> 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).	
	<b>2014:</b> International Workshop on Game Theory and Economic Applications <i>Poster session</i> (São Paulo, Brazil), SING 10 (Krakow, Poland).	
PROFESSIONAL	<b>Program Committee:</b>	
ACTIVITIES	<b>2022-...</b> <a href="#">the Annual University of Barcelona Game Theory Workshop</a> .	
	<b>2019:</b> The 11th Conference on Economic Design 2019 (Budapest, Hungary).	
	<b>Organizing Committee:</b>	
	<b>2022-...</b> <a href="#">the Annual University of Barcelona Game Theory Workshop</a> .	
	<b>2021:</b> The V SEIO Course on Game Theory: Algorithmic and game theoretic aspects of matching markets (Barcelona, Spain).	
	<b>2019:</b> 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**

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