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| 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 |
| RESEARCH INTERESTS | Game theory, matching theory, market design, operations research. | |
| CURRENT POSITION | Serra Húnter Assistant Professor of Economics Department of Mathematical Economics, Finance and Actuarial Sciences, University of Barcelona . | October 2021– |
| ACADEMIC POSITIONS | Assistant Professor of Economics Department of Economic Analysis, UNED . | March 2020–Oct 2021 |
| | Postdoctoral researcher CEREC & CORE, UCLouvain Saint-Louis-Bruxelles . | Sep 2019–Feb 2020 |
| | Postdoctoral researcher Institute of Economics, Hungarian Academy of Sciences . | Oct 2017–Aug 2019 |
| | Half-time lecturer Department of Operations Research and Actuarial Sciences, Corvinus University of Budapest . | Feb 2018–Feb 2019 |
| EDUCATION | PhD in Economics , <i>excellent (summa) cum laude</i> Universitat de Barcelona, Spain. | 2017 <i>Advisor:</i> Marina Núñez |
| | MSc in Advanced Mathematics Universitat Autònoma de Barcelona, Spain. | 2011 |
| | BSc in Mathematical Engineering Yildiz Technical University, Turkey. | 2010 |
| ACADEMIC STAYS | Simons Laufer Mathematical Sciences Institute (SLMath) <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 |
| | Center for Operations Research and Econometrics (CORE) Université catholique de Louvain Hosts: Ana Mauleon, Vincent Vannetelbosch | May 2019 |
| | University of Barcelona Host: Pedro Calleja | Short stay (2 weeks), Feb 2019 |
| | University of Barcelona Host: Marina Núñez | Short stay (2 weeks), Feb 2018 |
| | Tepper School of Business Carnegie Mellon University Hosts: 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. [Optimistic and pessimistic approaches for cooperative games](#), with Christian Trudeau, March 2024.
2. [Complementarities in childcare allocation under priorities](#), with Antonio Romero-Medina, August 2023.
3. [Matching markets with farsighted couples](#), with Sylvain Funck, Ana Mauleon and Vincent Vannetelbosch, April 2023.
4. [Limited farsightedness in priority-based matching](#), with Ana Mauleon and Vincent Vannetelbosch, December 2022.
5. [School choice with farsighted students](#), with Ana Mauleon and Vincent Vannetelbosch, November 2022.

SUPERVISION OF PH.D. THESIS

Martí Jané Ballarín, University of Barcelona. 2024–...
 Topics: Computational social choice and (algorithmic) game theory.
 Co-advisor with 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–...

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| | 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 |
| GRANTS | “Areas Emergents” Research Grant of UB | July 2022–Dec 2023 |
| | as co-PI of AS017672 Research Project (13.5K EUR) | |
| | <i>“Networks in societies: information, elections, and financial markets”</i> | |
| | Hungarian National Research, Development, and Innovation Office | 2018–2021 |
| | PD-128348 Individual Project (15.6 M HUF) | |
| | Barcelona Economic Analysis Team | June 2022 |
| | Travel Grant (1K EUR) | |
| | 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) | |
| | Cost Action IC1205 Short Term Scientific Mission Grant | 2015 |
| 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 | |
| | <i>PIs: Marina Núñez and Carles Rafels</i> | |
| | Networks in societies: information, elections, and financial markets” | July 2022–Dec 2023 |
| | University of Barcelona “Areas Emergents” Research Grants | |
| | <i>As co-PI with Oriol Tejada (PI)</i> | |
| | 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 | |
| | <i>PIs: Ana Mauleon and Vincent Vannetelbosch</i> | |
| | Game Theory Working Group | Feb 2019– |
| | Spanish Society of Statistics and Operations Research (SEIO) | |
| | <i>PI: Encarnación Algaba</i> | |
| | Heuristic problem solving in matching mechanisms | Sep 2017–Feb 2020 |
| | Hungarian Academy of Sciences | |
| | <i>PI: Péter Biró</i> | |
| | Game theory and assignment markets | 2014–2017 |
| | Consolidated research group (2014SGR40) by Generalitat de Catalunya | |
| | <i>PI: Marina Núñez</i> | |
| MEMBER OF PH.D. COMMITTEES | Pierre de Callataÿ, UCLouvain, Belgium. | June 2023 |
| | <i>“Three essays on farsightedness in network formation”.</i> | |
| | Saadia El Obadi, Universitat de Lleida, Spain. | October 2019 |
| | <i>“Generalizations of assignment games and information market games”.</i> | |

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| INVITED SEMINARS | <p>2023: IMW, University of Bielefeld (Germany).</p> <p>2022: QuantOM at HEC-Liège (Belgium), ORSTAT at KU Leuven (Belgium), University of Granada (Spain).</p> <p>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).</p> <p>2017: School of Government TEC Monterrey (Mexico), Centre d'Économie de la Sorbonne (France).</p> |
| PRESENTATIONS | <p>2023: the 12th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal), the 13th Conference on Economic Design (Girona, Spain).</p> <p>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).</p> <p>2021: International Conference on Social Choice and Voting Theory, PPE at Virginia Tech (online).</p> <p>2019: the 11th Conference on Economic Design (Budapest, Hungary), SING15 (Turku, Finland), the 11th Lisbon Meetings in Game Theory and Applications (Lisbon, Portugal).</p> <p>2018: the 14th Meeting of the SSCW (Seoul, South Korea), SEIO 2018 (Oviedo, Spain), University of Barcelona.</p> <p>2017: the 10th Conference on Economic Design (York, UK), the 1st Catalan Economic Society Conference (Barcelona, Spain).</p> <p>2016: 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).</p> <p>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).</p> <p>2014: International Workshop on Game Theory and Economic Applications <i>Poster session</i> (São Paulo, Brazil), SING 10 (Krakow, Poland).</p> |
| PROFESSIONAL ACTIVITIES | <p>Program Committee:</p> <p>2022-... the Annual University of Barcelona Game Theory Workshop.</p> <p>2019: The 11th Conference on Economic Design 2019 (Budapest, Hungary).</p> <p>Organizing Committee:</p> <p>2022-... the Annual University of Barcelona Game Theory Workshop.</p> <p>2021: The V SEIO Course on Game Theory: Algorithmic and game theoretic aspects of matching markets (Barcelona, Spain).</p> <p>2019: 11th Conference on Economic Design 2019 (Budapest, Hungary).</p> <p>Referee for:</p> <p>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.</p> <p>Reviewer for:</p> <p>Mathematical Reviews.</p> |
| ACCREDITATIONS | <p>One ‘sexenio’ (six-year period research recognition) for 2016-2021 by the Catalan University Quality Assurance Agency (AQU).</p> <p>Professor agregat by the Catalan University Quality Assurance Agency (AQU).</p> |

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).

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| REFERENCES | <p>Prof. Péter Biró Institute of Economics Hungarian Academy of Sciences biro.peter@krtk.mta.hu +36 30 950 53 68</p> <p>Prof. Marina Núñez School of Economics University of Barcelona mnunez@ub.edu +34 93 402 19 91</p> | <p>Prof. Ana Mauleon CEREC & CORE UCLouvain ana.mauleon@usaintlouis.be +32 22 11 79 35</p> <p>Prof. Vincent Vannetelbosch CORE & CEREC UCLouvain vincent.vannetelbosch@uclouvain.be +32 10 47 41 42</p> |
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