

Curriculum Vitae

Roberto Pablo Arribillaga

Personal Information

Nationality: Argentinean

Date of Birth: May 07th, 1984

Place of Birth: General Alvear, Mendoza, Argentina

Professional Address: Instituto de Matemática Aplicada San Luis

Universidad Nacional de San Luis

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Education

- **Ph.D. in Mathematics, 2012.** Universidad Nacional de San Luis. *Title: Cooperative Aspects in Assignment Games. Advisor: Alejandro Neme*
- **Licenciado in Mathematics,** Universidad Nacional de de San Luis (February 2008)
- **Professor in Mathematics,** Universidad Nacional de de San Luis (Dicember 2007)

Teaching and Research Appointments

- **Associted Profesor** (since July 2016). Departamento de Matemática, Universidad Nacional de San Luis.
- **Assistant Researches** (since November 2016). Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina (CONICET), Instituto de Matemática Aplicada San Luis
- **Member of Research Project** "Game Theory - Social Choice" (since 2008), awarded by Universidad Nacional de San Luis and directed by Dr. Alejandro Neme at UNSL-IMASL.
- **Member of Research Project** "Game Theory - Social Choice" (since 2008), awarded by CONICET directed by Dr. Alejandro Neme at UNSL-IMASL.
- **Assistant Professor** (2014-2016). Departamento de Matemática, Universidad Nacional de San Luis.
- **Post- Doctoral Fellowship,** CONICET (2013-2016). Instituto de Matemática Aplicada San Luis (UNSL-CONICET). Director: Dr. Alejandro Neme
- **Visiting Professor,** the Departament d'Economia i d'Historia Economica, Universidad Autonoma de Barcelona, July 2015. Invited by Jordi Massó.
- **Teaching Assistant** (2007-2014). Departamento de Matemática, Universidad Nacional de San Luis.

- **Visiting Scholar. Postdoctoral Fellowship**, the Departament d'Economia i d'Historia Econòmica, Universidad Autònoma de Barcelona, January-March 2013. Invited by Jordi Massó.

Publications

- **“Comparing Voting by Committees According to their Manipulability”**, by R. P. Arribillaga and J. Massó. *American Economic Journal: Microeconomics* (forthcoming).
- **“Comparing Generalized Median Voter Schemes According to their Manipulability”** by R. P. Arribillaga and J. Massó. *Theoretical Economics* 11 (2016), pp 547–586.
- **“Axiomatizing core extensions on NTU games.”** *International Journal of Game Theory* (2016), Volume 45, Issue 3, pp 585–600.
- **“Convergence of the Approximate Cores to the Aspiration Core in Partitioning Games”.** *TOP* (2015), Volume 23, Issue 2, pp 521-534.
- **“On the Structure of Cooperative and Competitive Solutions for a Generalized Assignment Game”** by R. P. Arribillaga, J. Massó and A. Neme. *Journal of Applied Mathematics* (2014), Article ID 190614, 20 pages.

Work in progress

- **“A cooperative approach to the knapsack allocation problem”.** by R. P. Arribillaga and G. Bergantiños.
- **“Not All Majority-based Social Choice Functions Are Obviously Strategy-proof”** by R. P. Arribillaga, J. Massó and A. Neme

Ph.D. students

- Pablo Neme, in progress (co-director)

Presentations

- **“A cooperative approach to the knapsack allocation problem”.** Annual Meetings of the Argentine Mathematical Union (UMA 2016), San Luis, September 2016.
- **“Comparing Voting by Committees According to their manipulability”.** Annual Meeting of the Argentine Association of Political Economy (AAEP 2015), Salta-Argentina. November 2015.
- **“Comparing Voting by Committees According to their manipulability”.** XVI Latin American Workshop in Economic Theory. San Luis, Argentina. August 2015.
- **“Comparing Generalized Median Voter Schemes According to their manipulability”.** *Institutions, Decisions and Governmental Practices: Theory, Simulations and Applications Workshop*. Barcelona –Spain, June 2015.

- “*Comparing Generalized Median Voter Schemes According to their manipulability*”. Annual Meetings of the Argentine Mathematical Union (UMA 2014), San Luis, September 2014.
- “*Comparing Generalized Median Voter Schemes According to their manipulability*”. International Workshop of Game Theory and Economic Applications of the Game Theory Society. San Pablo - Brazil, June 2014.
- “*Comparing Generalized Median Voter Schemes According to their Manipulability*”. XIV Latin American Workshop in Economic Theory. San Luis Potosí, México. October 2013.
- “*Estabilidad por Grupos en Juegos de Asignación Generalizados*”. IV Conference on Applied, Computational and Industrial Mathematics. Buenos Aires, Argentina. May 2013.
- “*Comparing Anonymous Median Voter Schemes by Their Degree of Strategy-proofness*”. Seminary of the Departamento de Economía de la Facultad de Ciencias Económicas y Empresariales de la Universitat de Girona. Girona-Spain. March 2013.
- “*Core de los Juegos de Familias Balanceadas*”. IV Latin-American Congress of Mathematics. Cordoba, Argentina. April 2012.
- “*Core of Balanced Family Games.*” Workshop: Cooperation, Matching and Collective Goods. San Luis, Argentina. November 2011
- “*Core of Balanced Family Games.*” XII Latin American Workshop in Economic Theory”. Punta del Este, Uruguay, November 2011.
- “*Balanced Family Games.*” III Conference on Applied, Computational and Industrial Mathematics (III MACI 2011). Bahía Blanca - Bs. As. May 2011
- “*Familias Balanceadas en Juegos de Asignación y Juegos Cooperativos*” Seminar of Graduated Student. Bahía Blanca -Argentina. November 2010
- “*The balanced core. Axiomatic Characterization*”. Second Brazilian Workshop of the Game Theory Society. San Pablo – Brazil. August 2010.
- “*Three new solution concepts type core on NTU games: Definition and Axiomatic Characterization*”. Second Conference on Applied, Computational and Industrial Mathematics (II MACI 2009), Rosario-Argentina, December 2009.
- “*The M-Core in the NTU games: Definition and Axiomatic Characterization*”. Annual Meeting of the Argentine Association of Political Economy (AAEP 2009), Mendoza-Argentina. November 2009.
- “*The M-Core in the NTU games: Definition and Axiomatic Characterization*”. X Latin American Workshop in Economic Theory”, Bahía Blanca-Argentina, October 2009.
- “*The T-Core, the M-core and the MT-core in the NTU games: Definition and Axiomatic Characterization*” Annual Meetings of the Argentine Mathematical Union (UMA 2009), Mar del Plata-Argentina, September 2009.

Graduate Courses

- **Graph Theory I.** Professor : Dr. Alejandro Neme (UNSL)
- **Algebra.** Professor: Dr. Alejandro Neme (UNSL)
- **Probability Theory.** Professor: Dr. Juan Cesco (UNSL)
- **Mathematical Models Applied to Social Choice.** Professor: Dr. Alejandro Neme (UNSL)
- **Geometry of Matrix Spaces.** Professor: Dr. Pablo Tarazaga (Texas A&M Corpus Christi)
- **Matching Theory.** Professor: Dr. Jordi Massó (Universitat Autònoma de Barcelona)
- **Mathematical Models Applied to Microeconomics**

Part I: Auction Theory. Professor: Dr. Leandro Arozamena (UTDT)

Part II: Search and Signalling Models. Professor: Dr. Federico Weinschelbaum (UdeSA)

Part III: General Equilibrium. Professor: Dr. Fernando Tohmé (UNS)

- **Minimum Cost Spanning Tree Problems.** Professor: Dr. Gustavo Bergantiños (Universidad de Vigo)
- **Theoretic Reason, Practical Reason and Technical Reason in the Economic.** Professor: Dr. Ricardo Crespo (Universidad Nacional de Cuyo).
- **Epistemology .** Professor: Violeta Guyot (UNSL)
- **Assignment Games and Incentives.** Professor: Dr. Alejandro Neme (UNSL)
- **Post-Optimal Analysis in Linear Semi-Infinite Optimization.** Professor: Dr. Miguel A. Goberna (Universidad de Alicante, Spain)

Other Courses

- Courses taken at the International Workshop of Game Theory and Economic Applications of the Game Theory Society. San Pablo- Brazil. June 2014.)
- **Market Design,** Professor: Alvin Roth (Stanford University).
- **Cooperative Games,** Professor: Roberto Serrano (Brown University).
- **Social Choice and Fair Allocations,** Professor: Hervé Moulin (University of Glasgow).
- **Clubs, Coalitions and Networks,** Professor: Myrna Wooders (Vanderbilt University).
- Courses taken at the II Escuela Puntana de Combinatoria (San Luis, Argentina July 2013.
- **Basic Addition Theorems in Groups ,** Professor: Eliahou Shalom, (Université du Littoral Côte d'Opale, Francia)

- Courses taken at the Second Brazilian Workshop of the Game Theory Society. (San Pablo-Brazil. August 2010.)
- **Networks**, Professor: Mattheew Jackson (Stanford University)
- **Non-Cooperative Games**, Professor: Shmuel Zamir (Hebrew University of Jerusalem)
- **Experimental Economics**, Professor: John Wooders (Univ. of Arizona, USA)
- **Auctions**, Professor: Paul Milgrom (Stanford University)
- Courses taken at First School of Mathematic Model of Economic Behavior Merlo. (San Luis, September 2005)
- **Mathematic Economic I**. Professor: Dr. Fernando Tohmé (UNS)
- **Assignment Games and Matching**. Professor: Dr. Alejandro Neme (UNSL)
- **Cooperative games Theory**. Professor: Dr. Juan C. Cesco (UNSL)

Academic Meetings

- VI Seminary of the Latin-American Network; Discrete Optimization and Graph. Buenos Aires, Argentina. December 2013.
- XIV Latin American Workshop in Economic Theory. San Luis Potosí, Mexico. October 2013.
- IV Conference on Applied, Computational and Industrial Mathematics. Buenos Aires, Argentina. May 2013
- IV Latin-American Congress of Mathematics. Cordoba, Argentina. April 2012.
- Workshop: Cooperation, Matching and Collective Goods. Universidad Nacional de San Luis. San Luis, Argentina. November 2011
- XII Latin American Workshop in Economic Theory". Universidad de la República. Punta del Este, Uruguay, November 2011.
- III Conference on Applied, Computational and Industrial Mathematics (III MACI 2011). Universidad Nacional del Sur. Bahía Blanca, Argentina May 2011
- "Seminar of Graduated Student". Universidad Nacional del Sur. Bahía Blanca -Argentina. November 2010
- "Second Brazilian Workshop of the Game Theory Society". San Pablo – Brazil. August 2010.
- "Second Conference on Applied, Computational and Industrial Mathematics", Universidad Austral, Rosario, December 2009.
- "V Meeting of the Project of Finite Method in Mathematic Economic", Universidad Nacional de Rosario-Argentina, December 2009.

- “XLIV Annual Meeting of the Argentine Association of Political Economy”, Universidad Nacional de Cuyo, Mendoza-Argentina, November 2009.
- “X Latin American Workshop in Economic Theory”, Universidad Nacional del Sur, Bahía Blanca-Argentina, October 2009.
- “XLIII Annual Meeting of the Argentine Association of Political Economy”, Universidad Nacional de Córdoba-Argentina, November 2008.
- “IX Latin American Workshop in Economic Theory”, Instituto de Matemática Aplicada San Luis (UNSL-CONICET), San Luis-Argentina, October 2008.
- Participation in the following Annual Meetings of the Argentine Mathematical Union: UMA 2009 (Mar del Plata-Argentina) and UMA 2007 (Córdoba-Argentina).
- “IV Meeting of the Project of Finite Method in Mathematic Economic”, Universidad de San Andrés, Buenos Aires-Argentina, June 2008.
- “Firts National Meeting of Differential Equations” organized by Facultad de Matemática, Astronomía y Física de la Universidad de Córdoba, La Falda, (Córdoba-Argentina) 2006.
- “Firts Meeting of the Project of Finite Method in Mathematic Economic”. Universidad Nacional del Sur, Bahía Blanca, 2006
- First School of Mathematic Model of Economic Behavior, organized by the Instituto de Matemática Aplicada San Luis, Merlo, (San Luis-Argentina) September 2005.

Programme committees

- Member of the Program Committees of the Latin American Conferences on Economics Theory. San Luis. Agust 2015.
- Member of the Local Program Committees of the Annual Meetings of the Argentine Mathematical Union (UMA 2014), San Luis, September 2014.

Other Research Activities

- Organizer of the Seminary of Game Theory and Social Choice at the Instituto de Matemática Aplicada San Luis (CONICET) 2014-2016.
- Organizer of the Seminary of the Departamento de Matemática (UNSL) and the Instituto de Matemática Aplicada San Luis (CONICET) 2013.
- Assistant in the AniMATE SAN LUIS from 2010 to 2013.
- Organizer of the Seminary of Game Theory at the Instituto de Matemática Aplicada San Luis (CONICET) 2010.

Master thesis (member of the committee)

- Pablo Neme, Universidad Nacional de San Luis, 2016

- Noelia JUAREZ, Universidad Nacional de San Luis, 2015
- Alejandra GARCES POSLEMAN, Universidad Nacional de San Luis, 2015
- Alicia PEDROSA, Universidad Nacional de San Luis, 2013

Referee

- European Journal of Operational Research
- Games and Economic Behavior

Awards and Fellowships

- Post-Doctoral Fellowship, CONICET (Since July 2013). Director: Dr. Alejandro Neme
- Post-Doctoral Fellowship, at the Universitat Autònoma de Barcelona and the Instituto de Investigación MOVE, from 15th of January 2013 to 15th of March 2013.
- Doctoral Fellowship (tipo II), CONICET (Since April 2011). Director: Dr. Alejandro Neme
- Doctoral Fellowship (tipo I), CONICET (2008-2011). Director: Dr. Alejandro Neme
- Selected as a FAPESP student by the State of São Paulo Research Foundation to attend the SECOND BRAZILIAN WORKSHOP OF THE GAME THEORY SOCIETY. As a FAPESP student I received air travel and accommodation financial support. San Pablo-Brazil. August 2010
- Distinction for Highest GPA, Best 2007 graduate in Universidad Nacional de San Luis. Awarded by Banco Santander Rio
- Scholarship, Fundación REPSOL-YPF (May 2004-February 2008) in career Licenciado in Mathematic.
- Award "Santander Rio" to Academic Merit 2008 and 2007.
- National flag 2007 in the Facultad de Ciencias Físico Matemáticas y Naturales de la Universidad Nacional de San Luis.
- Assistant Fellow by the Universidad Nacional de San Luis and the Instituto de Matemática Aplicada San Luis to attend the First School of Mathematic Model of Economic Behavior Merlo. (San Luis-Argentina. September 2005.