

## CURRICULUM VITAE ALEJANDRO JOSE NEME

### PERSONAL DATA

Born, May 15, 1953 in San Luis, Argentina.

**Professional Address:** Instituto de Matemática Aplicada-San Luis  
Universidad Nacional de San Luis  
Ejército de los Andes 950  
5700 San Luis  
Argentina

**Current Position:** Full Professor, Departamento de Matemática Universidad Nacional de San Luis.  
Principal Researcher Consejo de Investigaciones Científicas y Técnicas Ministerio de Educación.

### DEGREES

**Doctor en Matemática:** Universidad Nacional de San Luis, 1982.

**Licenciado en Matemática:** Universidad Nacional de San Luis, 1975.

### TEACHING AND RESEARCH APPOINTMENTS

- Professor, Departamento de Matemática, Universidad Nacional de San Luis, 1991-present.
- Principal Researcher. Consejo de Investigaciones Científicas y Técnicas. Ministerio de Educación. 2000-present.
- Visiting Professor, Departament d'Economia i d'Historia Económica, Universidad Autònoma de Barcelona.
- Associate Researcher. Consejo de Investigaciones Científicas y Técnicas. Ministerio de Educación. 1992-2000
- Visiting Professor, Departamento de Estadística e Investigación Operativa. Universidad de Santiago de Compostela. Spain. 1992.
- Assistant Researcher. Consejo de Investigaciones Científicas y Técnicas. Ministerio de Educación. 1983-1992.
- Visiting Scholar. Postdoctoral Fellowship, Department of Managerial Economics and Decision Sciences", Kellogg Graduate School of Management, Northwestern University. 1987-1989.
- Assistant Professor, Departamento de matemática, Universidad Nacional de San Luis, 1978-1986.
- Associate Professor, Departamento de matemática, Universidad Nacional de San Luis, 1986-1991.
- Teaching Assistant. Departamento de matemática, Universidad Nacional de San Luis, 1974-1978.

### PUBLICATIONS

- "On Societies Choosing Social Outcomes, and their Memberships: Internal Stability and Consistency,". G. Bergantiños, J. Massó and A. Neme. *Theory and Decision* 84, 84-97 (2018).
- "On Societies Choosing Social Outcomes, and their Memberships: Strategy-proofness". Bergantiños G., Massó J., and Neme A. *Social Choice and Welfare* 48, N° 4, 857-875 (2017).
- "The Division Problem under Constraints". Bergantiños G., Massó J., and Neme A. *Games and Economic Behavior* 89, 56-77 (2015). (ISSN: 0899-8256)

- “Stable Partitions in Many Division Problems: The Proportional and the Sequential Dictator Solutions”. Bergantiños G., Massó J., Moreno de Barreda I. Neme A. *Theory and Decision* 2015. (ISSN: 0040-5833)
- "On Cooperative Solutions of a Generalized Assignment Game: Limit Theorems to the Set of Competitive Equilibria". Massó J. and A. Neme. *Journal of Economic Theory* 2014 (ISSN: 0022-0531). Vol 154, pp 187-215.
- "On the Structure of Cooperative and Competitive Solutions for a Generalized Assignment Game. Pablo Arribillaga, Jordi Massó and Alejandro Neme. *Journal of Applied Mathematics*. 2014. Article ID 190614, 20 pages. <http://dx.doi.org/10.1155/2014/190614>. (ISSN: 1110-757X)
- “The Multiple-partners Assignment Game with Heterogeneous Sells and Multi-unit Demands: Competitive Equilibria ". Jaume D. Massó J. and Neme A. *Mathematical Methods of Operations Research* 2012. Volumen 76, Issue 2, pp 161-187.
- “On the Invariance of the Set of Core Matchings with Respect to Preference Profiles”, by Martínez R. Massó J. Neme A. and Oviedo J. *Games and Economic Behavior* 74(2). Pp 588-600. 2012.
- “The Division Problem with Voluntary Participation”, by G. Bergantiños, J. Massó, and A. Neme. *Social Choice and Welfare* 38 (3). Pp. 371-406. 2012.
- “The Division Problem with Maximal Capacity Constraints”. Bergantiños G., Massó J. and Neme A. *SERIEs-Spanish Economics Review*. 3: 29-57. 2012.
- "Stable Solutions on Matching Models with Quota Restriction", by Delfina Femenia, Mabel Marí, Alejandro Neme and Jorge Oviedo. *International Game Theory Review*. Vol. 13, N° 2. pp. 159-179. 2011.
- “The Bloquing Lemma for a Many-to-one Matchings Model”, by Martínez R. Massó J. Neme A. and Oviedo J. *Journal of Mathematical Economics* 46, 937-949 (2010).
- “On two basic properties of equilibria of voting with exit”, by D. Berga, G. Bergantiños, J. Massó, A. Neme. *Economics Bulletin* 4 (21): 1-9. 2008.
- “On the Invariance of the set of Stable Matching with Respect to Substitutable Preference Profiles”, by Martínez R. Massó J. Neme A. and Oviedo J.. *International Journal of Game Theory*. Vol. 36. pp. 497-518. 2008.
- “ An Undominated Nash Equilibrium for Voting by Committees with Exit”, by Berga D., Bergantiños G., Massó J., Neme A. *Mathematical Social Sciences* 54, pp.152-177. 2007.
- “ Bribe-proof rules in the division problem”, by Massó J. and Neme A. *Games and Economic Behavior*. Vol. 61. pp. 331-343. 2007
- “On exiting after Voting”, by Berga D., Bergantiños G., Massó J., Neme A. *International Journal of Game Theory*. Vol. 34. pp. 33-54. 2006.
- “Voting by Committees under Contraings”, by Barberá S., Massó J. and Neme A. *Journal of Economics Theory*, 2005. Vol 122/2 pp 185-205.
- “ Group Strategy-proofness and Many-to-one Stable Matchings”, by Martínez R. Massó J. Neme A. and Oviedo J. *International Journal of Game Theory*. Vol. 33, 115-128. 2004.
- “An Algorithm to Compute the set of Many-to-many Stable Matchings”, by Martínez R. Massó J. Neme A. and Oviedo J.. *Mathematical Social Sciences*, Vol. 47. 187-210. 2004.
- “A Maximal Domain of Preferences for Tops-only Rules in the Division Problem”, by Massó J. and Neme A.. *Social Choice and Welfare*, Vol. 23 N° 2, 229-248, 2004.
- “ Stability and voting by Committees with Exit”, by Berga D., Bergantiños G., Massó J., Neme A.. *Social Choice and Welfare*, Vol. 23 N° 2, 187-206, 2004.

- “On the lattice structure of the set of stable matchings for a many-to-one Model”, by Martinez R. Massó J. Neme A. and Oviedo J. Optimization 50, 439-457, 2001.
- “Maximal Domain of Preferences in the Division Problem”, by Massó J. and Neme A. Games and Economic Behavior 37, 367-387. 2001.
- “Single Agents and the set of Many-to-one stable matching” Martinez R. Massó J. Neme A. and Oviedo J. Journal of Economic Theory 91, pp 91-105. 2000.
- “Ranking Opportunity Sets: Freedom of Choice and Cost of Information”, by Neme A. Nieto J. and Quintas L. Anales de la 28 JAIIO, pp. 77-95. (1999).
- “Maximal Domain of Preferences Preserving Strategy-Proofness for Generalized Median Voter Schemes”, by Barberá S., Massó J. and Neme A. Social Choice and Welfare 1999. Vol 16 pp. 321-336.
- “Voting under Constraints”, by Barberá S., Massó J. and Neme A. Journal of Economic Theory 1997. Vol 76, N° 2. pp. 298-321.
- “Partial Subgame Perfect Equilibrium”, by Neme A. AMSE Association for Advancement of Modeling and Simulation. 1998.
- “A New Equilibrium Solution for Economics with Externalities”, by Neme A. AMSE Association for Advancement of Modeling and Simulation. 1997.
- “Strategy-Proof Allotment Rules”, by Barberá S., Jackson M. and Neme A.. Games and Economic Behavior. Vol. 18 pp. 1-21. 1997.
- “The Core for Economics with Price Influence Utilities”, by Marchi E. and Neme A. Revista de matemática Aplicada. Vol. 18, pp. 1-7. 1997.
- “Equilibrium Payoff of Dynamic Game”, by Masso J. and Neme A.. International Journal of Game Theory. Vol. 25 N° 4 pp. 437-454. 1996.
- “Subgame Perfect Equilibrium of Repeated Game with Cost of Implementation”, by Quintas L. and Neme A. Journal of Economics Theory. Vol. 66 N° 2 pp.599-608. 1995.
- “Refinement of Proper Equilibrium Points”, by Marchi E. and Neme A. Optimization, 1995. Vol. 32, pp. 185-192.
- “Little Perfection and Complexity”, by Neme A. International Journal of Game Theory. Vol. 22 N° 2, pp. 309-318. 1993.
- “Forgiving Equilibrium”, by Kalai E., Quintas L. and Neme A. Sociedad Argentina de Informática e Investigación Operativa. Tomo 2, pp. 242-255. 1993.
- “The Strength of a Little Perfection”, by Kalai E. and Neme A.. International Journal of Game Theory. N° 20. 1992.
- “Nash Equilibrium Strategies of Repeated Game with and without Cost of Implementation”, by Quintas L. and Neme A.. Operations Research Letters. N° 12. 1992.
- “A Generalization of Nikaido-Isoda’s Theorem”, by Cesco, J.C. and A. Neme Revista de Matemática Aplicada. N° 11, pp. 37-50. 1990.
- “Extremality of Stochastic Matrices in non Usual Cones”, by Tarazaga P., Marchi E. and A. Neme. Revista de Matemática Aplicada. N° 11, pp. 37-50. 1990.
- “A Limit Theorem on the Core of an Economy with Externalities”, by Neme A. Methods of Operations Research N° 61, pp. 65-72. 1989.
- “A Nash type Equilibrium in General Game without Transitive Preference”, by Cesco, J.C. and A. Neme. Mathematical Social Science. Vol. 17 N° 1, 1989.

- “Some Computational Aspect About two-step Transformation Model”, by Tarazaga R., Cesco, J.C. and A. Neme *Matemática Aplicada e Computacional*. Brazil 1989.
- “E-point for Global Economics”, by E. Marchi and Neme A. *Methods on Operation Research*. Vol. 55, pp. 223-229.
- “About input-output Correspondence in a n-step Transformation Models”, by Tarazaga R., Cesco, J.C. and A. Neme. *Revista de Informática e Investigación Operativa* (1985).
- “Explicit Interdependence in the Competitive Equilibrium Theory”, by Cesco, J.C., E. Marchi and A. Neme. *Matemática Aplicada e Computacional*. Brazil 1986. Vol. 4 N°3, pp. 261-277.
- “N-Puntos para Juegos”., by E. Marchi and A. Neme *Anales de la Sociedad Científica Argentina* 1986.
- “Core in a Interdependence Economy”, by Cesco, J.C., E. Marchi and A. Neme *Methods on Operations Research*. Vol. 44 pp. 265-274 (1983).
- “Simple Homotopy Type Pseudo-Lens Spaces”, by . Neme A. and Sanchez C. *Revista de la Unión Matemática Argentina*. Vol. 30 (1982).

## TEACHING EXPERIENCE

**Undergraduate:** Lineal Algebra, Algebra I, Algebra II, Algebra III, Algebra IV, Calculus I, Calculus II, Calculus III, Geometry, Differential Geometry, Topology, Lineal Programming.

**Graduate:** Lineal Algebra, Algebra, Differential Geometry, Lineal Programming, Operation Research, Game Theory, Matching.

## OTHER PROFESSIONAL ACTIVITIES

**Chairman**, Instituto de Matematica Aplicada-San Luis. Universidad Nacinal de San Luis-CONICET. 2001-2016.

**Coordinator**, Master in Mathematica. Departamento de Matematica. Universidad Nacional de San Luis. 1996-2000.

**Coordinator**, Doctorate in Mathematica. Departamento de Matematica. Universidad Nacional de San Luis. 2000-present.

**Tresurer**, of the Unión Matemática Argentina. 1998-2002.

**Award**, Diploma al Mérito de Fundación Konex, awarded to the country's 100 most outstanding scientists of the decade (2006-2016) - Argentina 2016.

### Congresses and Seminars:

Over 40 in Argentina, Brasil, Mexico, Uruguay, Spain, Canada, and Unated State.

### Students' Advising:

- Master Thesis: Nora Imberti. 2001. Daniel Jaume. 2002. (Co-director). Delfina Femenia. 12/15/2007. Mabel Mari. 12/15/2009. Paola Manasero. 2015. Alejandra Garcés.. 2015.
- Ph. D. Thesis: Daniel Jaume. 2007. Beatriz Millan. 2012. Eliana Beatriz Pepa Risma. 2012. Pablo Arribillaga. 2012. Agustín Bonifacio. 2014. Delfina Femenia. 2015. Paola Manasero. 2016.

### Referee:

Games and Economic Behavior. Social Choice and Welfare. XV, XVI Simposios de Análisis Económico. Barcelona (1990, 1991). Congreso Latino-Americano de Econometría. Mexico 1992. TOP. Journal of the

Spanish Statistical and Operations Research Society. Mathematical Social Sciences. Journal of Economic Theory. Optimization. Economic Theory. International Journal of Game Theory.

## **RESEARCH CONTRACTS** (Last 10 years)

- Grant PCI España-Iberoamericana. 2005-08. “Programa de Cooperación Científica con Iberoamérica”. Agencia Española de Cooperación Internacional. Ministerio de Educación y Ciencias. Spain.
- Grant PICT 03-10814. Agencia Nacional de Promoción Científica y Tecnológica. “Teoría de Juegos-Elección Social”. Ministerio de Educación. Argentina. 2002-2005.
- Grant: Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). “Teoría de Juegos-Elección Social”. Ministerio de Educación . Argentina. 2000-2004.
- Grant: Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). “Teoría de Juegos-Elección Social”. Ministerio de Educación . Argentina. 2005-2007.
- Grant: Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). “Teoría de Juegos-Elección Social”. Ministerio de Educación . Argentina. 2009-2017.