

Curriculum Vitae.

1. Personal Data:

Name: Antezana Jorge Abel
 Date of Birth: February 25th, 1978
 Nationality: Argentinian
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 Address: Instituto Argentino de Matemática, CONICET
 Saavedra 15 3rd floor Ciudad Autónoma de Buenos Aires (C.P.1083) Argentina
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2. Education:

- **B. Sc. in mathematics (Licenciado en Matemática)**
 National University of La Plata.
 Date: March 26th, 2002
- **Ph.D in mathematics (Doctorado en Ciencias Exactas (Área Matemática))**
 National University of La Plata.
 Advisors: Dr. Demetrio Stojanoff and Dr. Gustavo Corach
 Date: March 28th, 2006

3. Work experience:

Teaching

- Professor (Profesor Adjunto), Department of Mathematics, National University of La Plata, (01/04/11-till now).
- Teaching assistant (Profesor de problemas), Department of Mathematics, Universitat Autònoma de Barcelona (01/09/08 – 31/03/11).
- Teaching assistant, Department of Mathematics, National University of La Plata, (10/04/00 – 31/3/08).

Research

- Researcher since 01/04/2006 (Actual category: Independent).
 Institution: National Scientific and Technical Research Council (CONICET)
- Regular Associate of the Abdus Salam International Centre for Theoretical Physics (Trieste, Italy)
 (From January 2016 until 31 December 2021).

4. Students

Former students

- Diana Pastrian, University of Comahue, Argentina, Master thesis, 2007.
- Guadalupe García, National University of La Plata, Argentina, degree thesis 2014
- Eduardo Ghiglioni, National University of La Plata, Argentina, degree thesis 2014

PhD students

- Guadalupe García, National University of La Plata (Ph.D in progress)
- Eduardo Ghiglioni, National University of La Plata (Ph.D in progress)

5. Fellowships

1. Undergraduate
 Period: 1/7/99 - 1/6/01
 Institution: F.O.M.E.C. (proyecto 727).
2. Graduate fellowship
 Period: 2002 - 2003
 Institution: National University of La Plata

3. Graduate fellowship
Period: 2003 - 2007
Institution: National Scientific and Technical Research Council
4. Postdoctoral fellowship (Juan de la Cierva)
Period: 2008 - 2011
Institution: Ministerio de Ciencia e innovación de España

6. Awards

- "Joaquín V. González" award to the best average-grade students of the National University of La Plata.
- Prize to distinguished young researcher 2015. National University of La Plata.

7. Scientific Publications

1. J. Antezana, J. Marzo, J-F. Olsen, *Zeros of random functions generated with de Branges kernels*, to appear in Int. Math. Res. Notices. doi: 10.1093/imrn/rnw078
2. E. Agora, J. Antezana, M. J. Carro, *The complete solution to the weak-type boundedness of Hardy-Littlewood maximal operator on weighted Lorentz spaces*, to appear in J. Fourier Anal. Appl. doi:10.1007/s00041-015-9456-4
3. E. Agora, J. Antezana, C. Cabrelli, *Multi-tiling sets, Riesz bases, and sampling near the critical density in LCA groups*, Adv. Math. 285 (2015) 454-477.
4. J. Antezana, G. Larotonda, A. Varela, *Optimal paths for symmetric actions in the unitary group*, Comm. Math. Phys. 328 (2014), 481-497. DOI:10.1007/s00220-014-2041-x
5. E. Agora, J. Antezana, M.J. Carro, J. Soria, *Lorentz-Shimogaki and Boyd Theorems for weighted Lorentz spaces*, J. London. Math Soc. 89 (2014), 321-336.
6. J. Antezana, J. Buckley, J. Marzo, J-F. Olsen, *GAP probability for the cardinal sine*, J. Math. Anal. Appl. 396 (2012), 466-472.
7. J. Antezana, G. Larotonda, A. Varela, *Thompson-type formulae*, Journal of Functional Analysis 262 (2012), 1515-1528.
8. J. Antezana, E. Pujals, D. Stojanoff, *The iterated Aluthge transforms sequence of a matrix converge*, Adv. Math. 226 (2011) 1591-1620.
9. E. Andruchow, J. Antezana, G. Corach, *Topology and smooth structure of pseudoframes*, Integral Equations and Operator Theory 67 (2010) 451-466
10. J. Antezana, C. Cano, I. Mosconi, D. Stojanoff, *A note on the star order in Hilbert spaces*, Linear and Multilinear Algebra 58 (2010), 1037-1051.
11. J. Antezana, G. Corach, *Singular value estimates of oblique projections*, Linear Algebra Appl. 430 (2009), 386-395.
12. J. Antezana, E. Pujals, D. Stojanoff, *Convergence of iterated Aluthge transform sequence for diagonalizable matrices II: λ -Aluthge transform*, Integral Equations and Operator Theory 62 (2008), 465-488.
13. J. Antezana, G. Corach, *Sampling formulae and optimal decomposition of projections*, Sampl. Theory Signal Image Process 7 (2008), 313-331.
14. J. Antezana, E. Pujals, D. Stojanoff, *Iterated Aluthge transform: A brief survey*, Rev. Un. Mat. Argentina 49 (1) (2008), 29-41.
15. J. Antezana, E. Pujals, D. Stojanoff, *Convergence of iterated Aluthge transform sequence for diagonalizable matrices*, Adv. Math. 216 (2007), 255-278.
16. J. Antezana, P. Massey, M. Ruiz, D. Stojanoff, *The Schur-Horn theorem for operators and frames with prescribed norms and frame operator*, Illinois Journal of Mathematics 51 (2007), 537-560.
17. J. Antezana, P. Massey, D. Stojanoff, *Jensen's inequality for spectral order and submajorization*, J. Math. Anal. Appl. 331 (2007), 297-307.
18. J. Antezana, G. Corach, *Sampling theory, oblique projections and a question by Smale and Zhou*, Appl. Comput. Harmon. Anal. 21 (2006), 245-253.
19. J. Antezana, G. Corach, D. Stojanoff, *Bilateral Shorted Operators and Parallel Sums*, Linear Algebra Appl. 414 (2006), 570-588.
20. J. Antezana, G. Corach, M. Ruiz, D. Stojanoff, *Oblique projections and frames*, Proceedings of A.M.S., 134 (2006), 1031-1037.
21. J. Antezana, G. Corach, D. Stojanoff, *Spectral shorted operators*, Integral Equations and Operator Theory 55 (2006), 169-188.
22. J. Antezana, P. Massey, D. Stojanoff, *λ -Aluthge transforms and Schatten Ideals*, Linear Algebra Appl. 405 (2005), 177-199.
23. J. Antezana, G. Corach, M. Ruiz, D. Stojanoff, *Nullspaces and frames*, J. Math. Anal. Appl. 309 (2005), 709-723.
24. J. Antezana, G. Corach, M. Ruiz, D. Stojanoff, *Weighted projections and Riesz Frames*, Linear Algebra Appl. 402 (2005), 367-389
25. J. Antezana, G. Corach, D. Stojanoff, *Spectral shorted matrices*, Linear Algebra Appl. 381 (2004), 197-217.

8. Books

- J. Antezana, D. Stojanoff, *Análisis Matricial*, Cursos y seminarios de Matemática (Serie B), Departamento de Matemática, Facultad de Ciencias Exactas y Naturales UBA (ISBN 1851-149X).

9. Invited talks (Last 5 years)

- Title: Conjetura de Horn: Historia, solución y aplicaciones.
Place: Annual meeting of the Argentinian Mathematical Society. (Tucumán, Argentina 2011).
- Title: Thompson type formulae and geometric applications.
Place: IV Latinamerican Congress of Mathematics (Córdoba, Argentina 2012)
- Title: Symmetric GAFs in de Branges spaces.
Place: Trondheim Spring School (Trondheim, Norway 2013)
- Title: A geometric approach to the angular metrics and its connection with optimal paths in the unitary group.
Place: ICTP (Trieste, Italy 2013)
- Title: Relationships between de Branges spaces and point processes in the real line.
Place: New Trend in Applied Harmonic Analysis (Mar del Plata, Argentina 2013)
- Title: Sampling and interpolation sets near the critical density in LCA groups.
Place: 5th International Conference on Computational Harmonic Analysis (Nashville, USA 2014)
- Title: Fourier frames near the critical density in LCA groups.
Place: Coloquio de Matemática Brasileiro (Rio de Janeiro, Brasil 2015)

10. Participation in funded projects:

- National University of La Plata 11X350, “*Álgebras de Operadores y Análisis matricial*”, (2002-2005) (PhD Student).
- National Scientific and Technical Research Council of Argentina PIP 5272, “*Análisis Funcional y Teoría de operadores*” (2005-2006) (PhD Student).
- National University of La Plata 11X472, “*Teoría de operadores y análisis matricial*”, (2006-2007) (PhD Student).
- National University of La Plata, Grants for young (2006, 2007 y 2008).
- Universitat Autònoma de Barcelona, “*Diversos aspectos de la teoría de funciones y sus aplicaciones*” (2008-2012) (Associated researcher),
- 2009-SGR-1303, titulado “*Teoría de funciones*” (2009-2013) (Associated researcher),.
- National Agency of Science and Technology (Argentina) ANPCYT-808, “*Teoría de operadores y aplicaciones a problemas de sampling*”, (2008-2011) (Associated researcher),
- National Scientific and Technical Research Council of Argentina PIP 0435, “*Marcos, Teoría de Operadores y Análisis Matricial*”, (2010-2012) (Associated researcher),.
- National University of La Plata 11X585, “*Marcos, Análisis Matricial y Teoría de Operadores*”, (2012-2014) (Associated researcher),
- National University of La Plata PPID/X005, (2012-2014). (**Director**)
- National Scientific and Technical Research Council of Argentina PIP 0152, “*Marcos, Análisis Matricial y Teoría de operadores.*”, (2014-2016) (**Co-director**)

Other founding:

- IMU travel grant to participate in the ICM 2006.
- IMU travel grant to participate in the ICM 2010.
- Simon’s Fellowship to visit the University of Crete (March 2015).

11. Participation in thesis committees

- Master thesis of Nancy Kruce (National University of Comahue) (2011).
- Master thesis of Daniel Seco (Universitat Autònoma de Barcelona) (2011).
- Degree thesis of Nicolás Vescovo (National University of La Plata) (2013).
- Ph.D. thesis of Romina Ramirez (National University of La Plata) (2013)
- Ph.D. thesis of Pablo Turco (University of Buenos Aires) (2014)
- Degree thesis of Joaquin Singer (University of Buenos Aires) (2016)
- Ph.D. thesis of de María José Benac (National University of La Plata) (2016)
- Ph.D. thesis of Alejandro Quintero (National University of Mar del Plata) (2016)

12. Organization of Scientific events

- CIMPA school “*Random processes and optimal configurations*”, Buenos Aires July 6-17 of 2015.
- Special session “*Universal Sampling, Fourier Frames and Riesz Bases of Exponentials*” in SampTa 2015 (Washington DC)

- Member of the organizing committee of the 13th Argentinian Analysts Meeting, Villa General Belgrano April 15-16 of 2016

13. Membership in professional Societies

- Unión Matemática Argentina.
- Societat Catalana de Matemàtiques

14. Additional information

- Referee for: Linear Algebra and its Applications, Linear and Multilinear Algebra, Journal of mathematics and applications, Journal of the Mathematical Society of Japan, the Journal of Mathematical inequalities and applications.
- Reviewer for AMS.
- Reviewer FONDECYT research projects of Chile (2004), and PICT, CONICET, UBACYT research projects of Argentina (2009, 2016)