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EDUCATION

Ph.D University of Minnesota (Mathematics) 1988.
Thesis title: *Singular Integrals with respect to the Gaussian measure*. Advisor: Eugene Fabes.

MASTER Universidad Central de Venezuela (Mathematics) 1983.
Graduate with honors.
Thesis title: *Ley funcional del Logaritmo Iterado para el Movimiento Browniano biparamétrico con valores en un espacio de Banach* Advisor: Alejandro de Acosta.

LICENCIADO Universidad Central de Venezuela (Mathematics) 1978.
Magna Cum laude.
Thesis title: *Versiones maximales y sandwich del Teorema de Hahn - Banach*. Advisor: Mischa Cotlar.

RESEARCH INTEREST

Harmonic analysis, singular integrals, special functions, orthogonal polynomials, operator semigroups, functional inequalities, hypercontractivity, wavelets, stochastic process, martingales, stochastic integration, stochastic differential equations.

ACADEMIC EXPERIENCE

2013 - **Associate Professor**. Roosevelt University. Chicago, IL.
2010 - 2013 **Assistant Professor**. Roosevelt University. Chicago, IL.
2007 - 2010 **Visiting Professor**. DePaul University. Chicago, IL.
2005 - 2007 **Visiting Associate Professor**. University of New México. Albuquerque, NM.
2004 - 2005 **Visiting Professor**. University of Kansas. Lawrence, KS.
1998 - 2004 **Profesor Titular (Full Professor)**. Universidad Central de Venezuela. Caracas.
02-08/ 1996 **Visiting Associate Professor**. Universidad de la Rioja. Logroño. Spain.
09-12/1995 **Visiting Associate Professor**. University of Minnesota.

- Minneapolis. MN.
- 1992 - 1998 **Profesor Asociado.** Universidad Central de Venezuela.
Caracas.
- 1989 - 1992 **Profesor Agregado.** Universidad Central de Venezuela.
Caracas.
- 1988 - 1989 **Assistant Professor (Lawton Lecture).** Temple
University. Philadelphia. PA.
- 1982 - 1989 **Profesor Asistente.** Universidad Central de Venezuela.
Caracas.
- 1984 - 1988 **Teaching Assistant.** University of Minnesota. Minneapolis.
- 1978 - 1982 **Instructor.** Universidad Central de Venezuela.
Caracas.
- 1975 - 1978 **Auxiliar Docente.** Universidad Central de Venezuela.
Caracas.
- 1973 - 1975 **Preparador.** Universidad Central de Venezuela.
Caracas.

REFEREED PAPERS AND PUBLICATIONS

Refereed Papers

1. *Excursiones a los conjuntos similares al conjunto de Cantor.* (with R. DiMartino) accepted for publication in the Gaceta Sociedad Matemática Española (2018). arXiv:1025026
2. *A transference result of the L^p continuity of the Jacobi Littlewood-Paley g function to the Gaussian and Laguerre Littlewood-Paley g function.* (with Eduard Navas). Accepted for publication in Journal of Functional Spaces. (2018) arXiv:1612.05301
3. *Using Calculus to Model Income Inequality* (with Bárbara González-Arévalo) To appear in Mathematics and Social Justice: Modules for the Classroom, MAA. Vol 1. (2018)
4. *On Cantor-like sets and Cantor-Lebesgue singular functions* (with R. DiMartino) Submitted for publication (2017) arXiv: 1403.6554
5. *Potential Operators with mixed homogeneity.* (with Calixto P. Calderón). Harmonic Analysis, Partial Differential Equations, Complex Analysis, Banach Spaces, and Operator Theory (Volume 2) Celebrating Cora Sadosky's life. Association for Women in Mathematics. (2017) Springer-Verlag.

6. *New real variable methods in H summability of Fourier series.* (with Calixto P. Calderón and A. Susana Coré). Submitted for publication. (2017).
7. *Riesz Potentials, Bessel Potentials and Fractional Derivatives on Triebel-Lizorkin spaces for the Gaussian Measure.* (with A. Eduardo Gatto and Ebner Pineda). *J. Math. Anal. Appl.* 422 (2015), no. 2, 798–818. arXiv:1209.6133
8. *On Gaussian Lipschitz spaces and the boundedness of Fractional Integrals and Fractional Derivatives on them.* (with A. Eduardo Gatto). *Quaest. Math.* 38 (2015), no. 1, 1–25 arXiv:0911.3962
9. *Some Non Standard Applications on the Laplace Method.* (with Calixto P. Calderón) in Recent advances in harmonic analysis and applications. *Special Functions, Partial Differential Equations and Harmonic Analysis*, in honor of Calixto P. Calderón. Springer-Verlag (2014).
10. *A transference result of the L^p continuity of the Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms.* (with Eduard Navas). *J. Fourier Anal. Appl.* 19 (2013), no. 5, 910942. arXiv:1202.5728
11. *Riesz Potentials, Bessel Potentials and Fractional Derivatives on Besov-Lipchitz spaces for the Gaussian Measure.* (with A. Eduardo Gatto and Ebner Pineda). Recent advances in harmonic analysis and applications, dedicate to Konstantin Oskolkov for his 65 birthday, 105–130, *Springer Proc. Math. Stat.*, 25, Springer, New York, (2013). arXiv:1108.0238
12. *On Abel summability of Jacobi polynomials series, the Watson Kernel and applications.* (with Calixto P. Calderón). *Illinois J. Math.* Volume 57, Number 2 (2013), 343-371. arXiv: 1207.4524
13. *On the Theta semigroup.* (with Ahmed Zayed). *Complex Anal. Oper. Theory* 6 (2012), no. 3, 565–583. arXiv:1108.0244
14. *Sobolev-Gegenbauer type orthogonality and a hydrodynamical interpretation.* (with José Y. Bello, Charo Márquez and Héctor Pijeira). *Integral Transform and Special functions.* (2011) 1–12.
15. *On Polar Legendre Polynomials.* (with José Y. Bello and Héctor Pijeira). *Rocky Mountain Journal of Mathematics.* Vol 40, Number 6

(2010) 2025–2036. arXiv:0709.4537

16. *Some results on Gaussian Besov-Lipschitz spaces and Gaussian Triebel-Lizorkin spaces.* (with Ebner Pineda). Journal of Approximation Theory, Volume 161, Issue 2, December (2009), 529–564. arXiv:0709.4533
17. *Semigroups associated to generalized polynomials and some classical formulas.* (with Cristina Balderrama and Piotr Graczyk). J. Math. Pures Appl. 92 (2009) 375–395.
18. *Fractional Integration and Fractional Differentiation for d -dimensional Jacobi Expansions.* (with Cristina Balderrama). Contemporary Mathematics. AMS #471 (2008) 1–14.
19. *Controllability of Laguerre and Jacobi Equations.* (with Diomedes Bárcenas, Hugo Leiva and Yamilet Quintana). International Journal of Control. 80:8 (2007) 1307–1315.
20. *Non Tangential convergence for the Ornstein-Uhlenbeck semigroup.* (with Ebner Pineda) Divulgaciones Matemáticas 16, no. 1 (2007), 107–124. <http://-www.emis.de/journals/DM/v16-1/art7.pdf>
21. *Sobre la propiedad hipercontractiva.* Divulgaciones Matemáticas 15, no. 2 (2007) 235–252. <http://www.emis.de/journals/DM/v15-2/art12.pdf>
22. *Fractional Integration and Fractional Differentiation for Jacobi Expansions.* (with Cristina Balderrama) Divulgaciones Matemáticas 15, no. 2 (2007) 93–113. <http://www.emis.de/journals/DM/v15-2/art2.pdf>
23. *On the maximal function of the generalized Ornstein-Uhlenbeck semigroup.* (with Jorge Betencort, Liliana Forzani, and Roberto Scotto) Quaestiones Mathematicae 30 (2007). 1–12. arXiv: math. CA/0610011
24. *Controllability of the Ornstein Uhlenbeck Equation.* (with Diomedes Bárcenas and Hugo Leiva) IMA Journal of Mathematical Control and Information. 22 (2005), no. 3, 310–320.
25. *A formula for polynomials with Hermitian matrix argument.* (with Cristina Balderrama and Piotr Graczyk). Bull. Sci. Math. 129 (2005) no. 6, 486–500.
26. *Higher order Riesz transforms, Fractional differentiation and Sobolev spaces for Laguerre expansions.* (with Adam Novak, Piotr Graczyk,

- Jean-J. Loeb and Iris López). *J. Math. Pures Appl.* (9). 84 (2005), no. 3, 375–405
27. *On some functions of the Littlewood Paley theory the Gaussian measure and applications* (with Iris López). *Revista de la Unión Matemática Argentina (UMA)*. Vol 45 (2004), no. 2 , 41–53.
 28. *Fractional differentiation for the Gaussian measure and applications.* (with Iris López). *Bull. Sci. Math.* 128 (2004), no. 7, 587–603
 29. *On the L^p boundedness of the non-centered Gaussian Hardy-Littlewood maximal function* . (with Liliana Forzani, Roberto Scotto and Peter Sjögren). *Proc. Amer. Math Soc.* vol 130 (1) (2002) 73–79.
 30. *Zero localization and asymptotic behavior of orthogonal polynomials of Jacobi-Sobolev.* (with Héctor Pijeira and Yamilet Quintana). *Revista Colombiana de Matemáticas.* vol 35 #2 (2001). 77–97.
 31. *Asymptotic behaviour of orthogonal polynomials Primitives* (with Alfredo Fundora and Héctor Pijeira). *Margarita Mathematica*. Volume dedicated to José Javier Guadalupe Hernández (Chicho). Universidad de la Rioja (2001) 627–633.
 32. *Local properties of martingales: some new proofs.* (with Miguel Narváez.) *Acta Científica Venezolana.* Suplemento 2 vol 52. (2001) 39–44.
 33. *Poisson-Hermite representation of solutions of the equation $\frac{\partial^2}{\partial t^2}u(x, t) + \Delta_x u(x, t) - 2x \cdot \nabla_x u(x, t) = 0$.* (with Liliana Forzani). *Proceedings 5th International Conference on Approximation and Optimization in the Caribbean. Approximation, Optimization and Mathematical Economics* (2001). 109–115. Springer Verlag.
 34. *A simpler proof of the L^p continuity of the higher order Riesz Transform with respect to the Gaussian measure γ_d .* (with Liliana Forzani and Roberto Scotto). *Seminaire de Probabilites Lecture Notes in Math* 1755. (2001). Springer-Verlag.
 35. *Riesz and Bessel Potentials, the g_k functions and an Area function, for the Gaussian measure γ_d .* (with Liliana Forzani and Roberto Scotto). *Revista de la Unión Matemática Argentina (UMA)* vol 42 (1) (2000) 17–37.

36. *Análisis Armónico Gaussiano: una visión panorámica* Boletín de la AMV Vol V No (1998) 143-184.
37. *Invariant subspaces and commutant for the Gaussian Hilbert Transform.* (with María D. Morán) Acta Científica Venezolana, Vol 49, No 2 (1998) 102–105.
38. *Continuous s -martingales as stochastic integrals with respect to the Brownian sheet* (with Ignacio González). Modelos Estocásticos. Investigación #14. Aportaciones Mat. Investig.,14, Soc. Mat. Mexicana, (1998) 241–259.
39. *Generalized Burkholder - Davis - Gundy inequalities and good λ -inequalities.* (with Miguel Narváez) Acta Científica Venezolana, Vol 48, No 4 (1997) 211–215.
40. *Measurable Multifunctions in non-separable Banach spaces.* (with Diomedes Bárcenas) SIAM J. Math. Anal. Vol.28, No 5 (1997) 1212–1226.
41. *De la desigualdad de Khintchine a las desigualdades del buen- λ .* Notas de Matemáticas #149. Departamento de Matemáticas. Facultad de Ciencias. ULA. (1994).
42. *La Transformada de Riesz con respecto a la medida de Gauss.* Notas de Matemáticas #115. Departamento de Matemáticas, Facultad de Ciencias. ULA (1991).
43. *Estimates for the maximal operator of the Ornstein-Uhlenbeck semigroup.* (with Cristián Gutiérrez). Proc. Amer. Math Soc. 113 (1991) 99–104.
44. *Teorema Central del Límite para s -martingalas.* (with Ileana Iribarren), Actas del IV Congreso de Probabilidades y Estadística. Universidad Nacional Autónoma de México. Ciudad de México, México (1990).
45. *Singular Integrals with respect to the Gaussian measure.* Annali della Scuola Normale Superiore (classe di Scienza) Serie IV Vol.XVII.4 Pisa, Italia (1990) 531–567.
46. *Functional Law of the Iterated Logarithm for the Biparametric Brownian motion with values in a Banach space.* Notas de Matemáticas

(85-PE-01). Departamento de Matemáticas. Facultad de Ciencias. UCV. (1985).

Monographs

1. *Operators Semigroups associated to Classical Orthogonal Polynomials and Functional Inequalities.* in *Orthogonal Families and Semigroups in Analysis And Probability - CIMPA Workshop Mérida, Venezuela, 2006.* French Mathematical Society (SMF). Séminaires et Congrès 25 (2012), xv+383 pages.
2. *Semigrupos de Polinomios Clásicos y Desigualdades Funcionales.* Universidad de los Andes. Mérida. Venezuela. February 2006. 108 pag. Course taught in Escuela CIMPA-Venezuela.
3. *Introducción a la Teoría de Ondículas a través del Algebra Lineal.* (with Ventura Echandía) Universidad del Zulia. Maracaibo. Venezuela. July 2004. 162 pag. Course taught in V TForMa.
4. *Integrales singulares y sus aplicaciones* (with Liliana Forzani). Universidad de los Andes, Mérida, Venezuela. September 2001. 142 pag. Course taught in XIV Escuela Venezolana de Matemáticas.
5. *Teoría de Aproximación y Polinomios Ortogonales.* Universidad de Centro-Occidental Lisandro Alvarado. Barquisimeto, Venezuela. July 2001. 56 pag. Course taught in II TForMa.
6. *Análisis Real* (with Neptalí Romero). Universidad de CentroOccidental Lisandro Alvarado. Barquisimeto, Venezuela. October 2000. 103 pag. Course taught in I TForMa.
7. *Análisis Armónico Gaussiano: una visión panorámica.* Monograph to be promoted to Profesor Titular. Facultad de Ciencias UCV (1998).
8. *Harmonic Analysis and Operator Theory.* Editor. Contemporary Mathematics # 189. American Mathematical Society (1995).
8. *Teoría de Martingalas y aplicaciones.* Universidad de los Andes, Mérida, Venezuela. September 1992 . 142 pag. Course taught in V Escuela Venezolana de Matemáticas. (1992).
9. *Tópicos de Análisis Armónico Gaussiano.* Monograph to be promoted to Profesor Asociado. Facultad de Ciencias UCV (1992) and in Actas

del Seminario Avanzado en Teoría de Aproximación. Universidad de Cantabria. Laredo, Spain. September 1992.

10. *La Ecuación de Schrodinger: una introducción a las ecuaciones no lineales de evolución.* (with Gustavo Ponce). Universidad de los Andes, Mérida, Venezuela. September 1990. 92 pag. Course taught in III Escuela Venezolana de Matemáticas. (1990).
11. *La Transformada de Riesz con respecto a la medida de Gauss.* Monograph to be promoted to Profesor Agregado. Facultad de Ciencias UCV (1989).
12. *Ley Funcional del Logaritmo Iterado para el Movimiento Browniano biparamétrico con valores en un espacio de Banach.* Monograph to be promoted to Profesor Asistente. Facultad de Ciencias UCV (1982).

WORK IN PROGRESS

1. *Gaussian Harmonic Analysis.* Book submitted for publication in Springer-Verlag (2018). In revision.
2. *On the asymptotic relations between Jacobi, Hermite and Laguerre settings.* (with Eduard Navas). Article in preparation.
3. *On Gaussian Harmonic Analysis in Variable $L^{p(\cdot)}$ Gaussian Lebesgue Spaces.* (with Ebner Pineda and Jorge Moreno). Article in preparation.
4. *Martingale Theory and Applications.* (with Ricardo Rios). Book in preparation.

CONFERENCE TALKS

1. *On Gaussian Harmonic Analysis in Variable $L^{p(\cdot)}$ Lebesgue Spaces.* Invited speaker 38th International conference on Infinite Dimension Analysis, Quantum Probability and Related Topics QP38 held at Tokyo University of Science October 02–07, 2017.
2. *Gaussian Harmonic Analysis.* Invited speaker International School-Workshop “Orthogonal Polynomials, Interacting Fock Spaces, Quantum Markov Semigroups and related fields”. Tunisia, Nabeul, Yasmine Hammamet, October 17–21, 2016.

3. *A transference results of the L^p continuity from Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms.* Invited speaker at the special session on "Harmonic Analysis and Geometric Measure Theory" at the V Congreso Latinoamericano de Matemáticos (V CLAM), Universidad del Norte (UNINORTE), Barranquilla, Colombia, July 11–15, 2016.
4. *On Abel summability of Jacobi polynomials series, the Watson Kernel and applications.* 10th. International Conference on Harmonic Analysis and Partial Differential Equations El Escorial, Madrid (Spain) June 12-17, 2016.
5. *A Brief History of Pi and of its computation.* 2016 ISMAA annual meeting. Illinois College. Jacksonville, IL. April 8–9, 2016.
6. *New real variable methods in H summability of Fourier series.* 15th. New Mexico Analysis Seminar, Albuquerque, New Mexico, February 19–21, 2016.
7. *New real variable methods in H summability of Fourier series.* Meeting in Analysis, celebrating Salvador Pérez-Esteve's 60-th birthday, Unidad Cuernavaca del Instituto de Matemáticas de la Universidad Autónoma de México, Cuernavaca, México, November 18–20, 2015.
8. *A transference results of the L^p continuity from Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms.* Quantum Markov Semigroups in Analysis, Physics and Probability. Banff International Research Station for Mathematical Innovation and Discovery (BIRS) & Casa Matemática Oaxaca (CMO), Oaxaca, México, August 23–28, 2015.
9. *Random Variables, Independence, and Number Theory: Some Examples* 2015 ISMAA annual meeting. Northern Illinois University in Dekalb, IL. March 27– 28, 2015
10. *A transference results of the L^p continuity from Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms.* Probability on Algebraic and Geometric Structures Conference. Southern Illinois University, Carbondale IL, June 5–7, 2014
11. *A transference results of the L^p continuity from Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms.* AMS Western

- Spring Sectional Meeting, Special Session on Harmonic Analysis and Its Applications, III. Albuquerque, New Mexico. April 5–6, 2014.
12. *Stacking Cantor Sets*. 2014 ISMAA annual meeting. Southern Illinois University, Edwardsville IL, March 28–29, 2014
 13. *On Abel summability of Jacobi polynomials series, the Watson Kernel and applications*. Distancia y Media en Análisis y Ecuaciones Diferenciales, in honor of Hugo Aimar his 60-th birthday. Universidad del Litoral, Santa Fe, Argentina, June 13–14, 2013.
 14. *Transference results from the L^p continuity of operators in the Jacobi case to the L^p continuity of operators in the Hermite and Laguerre case*. 9th International Conference on Harmonic Analysis and Partial Differential equations. El Escorial, Spain. June 2012.
 15. *Transference method of the L^p continuity of the Jacobi Littlewood-Paley g function to the Gaussian and Laguerre Littlewood-Paley g function*. AMS 2012 Spring Central Section Meeting Lawrence KS, April 2012.
 16. *A transference result of the L^p continuity of the Jacobi Riesz transform to the Gaussian and Laguerre Riesz transforms*. III Workshop in Harmonic Analysis and PDE (III WHAPDE). México City, México, October 2011.
 17. *Higher Order Riesz and Bessel Fractional Derivatives on Gaussian Lipschitz spaces*. AMS 2011 Spring Southeastern Section Meeting. Statesboro, GA, March 2011.
 18. *Riesz Potentials, Bessel Potentials and Fractional Derivatives on Functions spaces for the Gaussian Measure*. AMS Fall Eastern Sectional Meeting Syracuse, NY. USA. September 2010.
 19. *Riesz Potentials, Bessel Potentials and Fractional Derivatives on Functions spaces for the Gaussian Measure*. International Congress of Mathematicians (ICM), Hyderabad, India, August, 2010.
 20. *Riesz Potentials, Bessel Potentials and Fractional Derivatives on Functions spaces for the Gaussian Measure*. AMS Western Section Meeting. Albuquerque, New Mexico, USA. April 2010.

21. *Lipschitz spaces Fractional Integrals and Fractional Derivatives*. 12th New Mexico Analysis Seminar. University of New Mexico. Albuquerque NM. USA. April 2009.
22. *On Gaussian Besov-Lipchitz and Triebel-Lizorkin spaces*. Eight Prairie Analysis Seminar. University of Kansas. Lawrence, KS. USA. November 2008.
23. *Orthogonal polynomials with Hermitian matrix argument*. International Workshop on Orthogonal Polynomials and Approximation Theory 2008. Universidad Carlos III. Leganés, Spain. September 2008.
24. *Markov semigroups associated to families of generalized orthogonal polynomials*. 8th International Conference on Harmonic Analysis and Partial Differential equations. El Escorial, Spain. June 2008.
25. *Markov semigroups associated to families of generalized orthogonal polynomials*. South Florida Analysis seminar-4, Florida Atlantic University, Boca Ratón, Florida, USA. March 2008.
26. *On Gaussian Besov-Lipschitz spaces*. AMS Meeting. DePaul University, Chicago, Illinois. USA. October 2007.
27. *Fractional Integration and Fractional Differentiation for d-dimensional Jacobi Expansions*. Joint Meeting AMS-SMM. Universidad de Zacatecas, Zacatecas, México. May 2007.
28. *Fractional Integrtion and Fractional Differentiation for d-dimensional Jacobi Expansions*. 1027th AMS Meeting. University of Arizona, Tucson, Arizona, USA. April 2007.
29. *On orthogonal polynomials with Hermitian matrix arguments*. Satellite conference of ICM2006: Harmonic and Geometric Analysis with Applications to PDE's. Seville. Spain. August 2006.
30. *On orthogonal polynomials with Hermitian matrix arguments*. Ninth New Mexico Analysis Seminar. University of New México. Albuquerque New México. USA. April 2006
31. *On orthogonal polynomials with Hermitian matrix arguments*. 1015th AMS Meeting. Florida International University, Miami. USA. April 2006.

32. *A formula for polynomials with Hermitian matrix arguments.* MAA Regional Meeting. Lawrence. USA March 2005.
33. *A formula for polynomials with Hermitian matrix arguments.* AMS-MAA-SIAM Joint Mathematics Meetings. Atlanta. USA January 2005.
34. *Higher order Riesz-Laguerre transforms.* 1000th AMS Meeting. University of New México. Albuquerque New México. USA October 2004
35. *Higher order Riesz-Laguerre transforms.* 7th International Conference on Harmonic Analysis and Partial Differential equations. El Escorial, España. July 2004.
36. *Higher order Riesz-Laguerre transforms.* XVII Jornadas Matemáticas Venezolanas. ULA Trujillo, Venezuela. April 2004.
37. *Fractional differentiation for the Gaussian measure and applications.* Workshop in Harmonic Analysis and Partial Differential Equations. Puerto Vallarta, México, June 2003.
38. *Sobolev spaces and Fractional differentiation for the Laguerre semigroup.* XVI Jornadas Matemáticas Venezolanas. USB Caracas, Venezuela. April 2003.
39. *Fractional differentiation for the Gaussian measure and applications.* Probability measure on groups: Recent directions and trends. Mumbai, India. September 2002.
40. *The Laguerre semigroup for the cone of the symmetric positive definite matrices.* XV Jornadas Matemáticas Venezolanas. Maracaibo, Venezuela, March 2002.
41. *Asymptotic behaviour of orthogonal polynomials primitives.* XIV Jornadas Matemáticas Venezolanas. Barquisimeto, Venezuela. April 2001.
42. *A simpler proof of the L^p continuity of the higher order Riesz Transform with respect to the Gaussian measure γ_d .* Advanced Seminar on Approximation Theory. Summer courses. Universidad de Cantabria, Laredo, España. July 2000.

43. *The L^p continuity of the g_k Littewood-Paley function with respect to the Gaussian measure.* 6th International Conference on Harmonic Analysis and Partial Differential Equations. El Escorial, España. July 2000.
44. *The L^p continuity of the g_k Littewood-Paley function with respect to the Gaussian measure.* 3rd International Conference in Africa on Abstract Analysis (ICAA 2000), South Africa. June 2000.
45. *A simpler proof of the L^p continuity of the higher order Riesz Transform with respect to the Gaussian measure γ_d* AMS. Special session in Orthogonal Polynomial. DePaul University. Chicago, USA. September 1998.
46. *A simpler proof of the L^p continuity of the higher order Riesz Transform with respect to the Gaussian measure γ_d* XI Jornadas Matemáticas Venezolanas. Cumaná, Venezuela. March 1998.
47. *Riesz potentials for the Gaussian measure.* 5th International Conference on Harmonic Analysis and Partial Differential Equations. El Escorial, Spain. June 1996.
48. *El lema de Calderón-Zygmund para la medida Gaussiana.* VII Jornadas Matemáticas Venezolanas. Barquisimeto, Venezuela, March 1994.
49. *Estimates for the Maximal operator of the Ornstein-Uhlenbeck semi-group.* 4th International Conference on Harmonic Analysis and Partial Differential Equations. Miraflores de la Sierra, Spain. June 1992.
50. *Las funciones de Rademacher y la Teoría de Martingalas.* IV Jornadas Matemáticas Venezolanas. Caracas, Venezuela. March 1991.
51. *Teorema Central del Límite para s -martingalas.* 40th ASOVAC Annual Conference. Cumaná, Venezuela. November 1990.
52. *Estimates for the Maximal operator of the Ornstein-Uhlenbeck semi-group.* 40th ASOVAC Annual Conference. Cumaná, Venezuela. November 1990.
53. *Estimates for the Maximal operator of the Ornstein-Uhlenbeck semi-group.* I Coloquio Bolivariano de Matemáticas. Universidad Central de Ecuador. Quito, Ecuador. July 1990.

54. *Ley Funcional del Logaritmo Iterado para el Movimiento Browniano biparamétrico con valores en un espacio de Banach*. Fifth Probability and Statistics National Symposium (V SINAPE), Universidad de Sao Paulo, Brasil. July 1982.
55. *Ley Funcional del Logaritmo Iterado para el Movimiento Browniano biparamétrico con valores en un espacio de Banach*. 31st ASOVAC Annual Conference. Maracaibo, Venezuela. November 1981.

COURSES AND SEMINARS

Courses

1. *Elements of Gaussian Harmonic Analysis*. (mini-course of 3 talks). Conferencia León. Caracas, Venezuela, November 2011.
2. *Introducción a la Teoría de Ondículas*. (course of 6 talks). CIMAT. Guanajuato, México. Mayo-Junio 2007.
3. *Semigrupos de Polinomios Clásicos y Desigualdades Funcionales*. (course of 4 talks). Universidad de los Andes. Mérida, Venezuela. February 2006. 108 pag. Escuela CIMPA-Venezuela.
4. *Introducción a la Teoría de Ondículas a través del Algebra Lineal*. (course of 12 talks). Universidad del Zulia. Maracaibo, Venezuela. July 2004. 157 pag. V TForMa.
5. *Integrales singulares y sus aplicaciones* (course of 10 talks) XIV Escuela Venezolana de Matemáticas. Universidad de los Andes. Mérida, Venezuela. September 2001.
6. *Teoría de Aproximación y Polinomios ortogonales* (course of 12 talks). Universidad Centro-Occidental Lisandro Alvarado. Barquisimeto, Venezuela. July 2001. 53 pag. II TForMa.
7. *Análisis Armónico Gaussiano* (4 talks) SAMOS. University of Paris 1. Paris, France. June 2001.
8. *Análisis Real* (course of 12 talks with Neptalí Romero). Universidad Centro-Occidental Lisandro Alvarado. Barquisimeto, Venezuela. October 2000. 103 pag. I TForMa.

9. *Teoría de Martingalas y aplicaciones al Análisis* (course of 10 talks). Universidad Nacional de la Plata. Argentina. March 1993.
10. *Teoría de Martingalas y aplicaciones* (course of 10 talks). V Escuela Venezolana de Matemáticas. Universidad de los Andes, Mérida, Venezuela. September 1992.
11. *Tópicos de Análisis Armónico Gaussiano* (3 talks). Advanced Seminar on Approximation Theory. Summer courses. Universidad de Cantabria. Laredo, Spain. September 1992.
12. *Tópicos de Análisis Armónico Gaussiano* (5 talks). INTEC-Universidad Nacional del Litoral, Santa Fé, Argentina. February - March 1992.
13. *La Ecuación de Schrodinger: una introducción a las ecuaciones no lineales de evolución* (course of 10 talks) III Escuela Venezolana de Matemáticas. Universidad de los Andes, Mérida, Venezuela. September 1990.

Seminars

- Roosevelt University (Chicago, Illinois, USA), October 2010, January 2011, September 2011, February 2015, February 2016.
- Universidad Central de Venezuela. Seminario de Análisis (Caracas, Venezuela), March 1982, February 1989, September 1992, June 1994, November 1996, June 1998, September 2000, February 2003, July 2008, June 2009.
- Universite d'Angers. (Angers, Francia), June 2001, January 2002, October 2002, October 2003, July 2009.
- Universidad de los Andes. (Mérida, Venezuela), March 1991, February 2001, May 2003, June 2009.
- Universidad Centro-Occidental Lisandro Alvarado. (Barquisimeto, Venezuela), February 2000, April 2004, July 2008.
- Universidad Simón Bolívar. Coloquia (Caracas, Venezuela), July 2008.
- Universidad de Texas. (El Paso, Texas USA), May 2007.
- CIMAT (Guanajuato, México), June 2007.

- DePaul University (Chicago, Illinois, USA), October 2007, October 2008, April 2010, February 2011.
- Northwestern University (Evanston, Illinois, USA), November 2007.
- New Mexico State University (Las Cruces, USA), February 2007.
- University of New Mexico (Albuquerque, New Mexico, USA), November 2005, March 2006, January 2007.
- University of Missouri. (Columbia, Missouri, USA), December 2004, April 2007.
- University of California (Santa Bárbara, California, USA), May 2006.
- Universidad de la Laguna. (Tenerife, Spain), November 2002, June 2004, June 2006.
- University of Kansas. (Lawrence, Kansas, USA), September 2004, April 2005.
- Universidad Autónoma de Madrid. (Madrid, Spain), October 1994, July 2000, November 2002, October 2003.
- Instituto Venezolano de Investigaciones Científicas (IVIC) (Caracas, Venezuela), November 1989, May 2003.
- Tata Institute for the Fundamental Research and Mathematics. (Mumbai, India), September 2002.
- Universidad Carlos III. (Madrid, Spain), June 1996, July 2000.
- UNEXPO. (Barquisimeto, Venezuela), November 1999.
- INTEC-Universidad Nacional del Litoral (Santa Fé, Argentina), March 1993, November 1997, August 1999.
- University of Texas. (San Antonio, USA), September 1998.
- University of Texas. (Austin, USA), September 1998.
- Universidad de la Plata. (La Plata, Argentina), March 1992, December 1997.
- Rutgers University (New Brunswick, USA), April 1989, October 1996.

- Universidad de la Rioja. (Logroño, Spain), October 1994, June 1996.
- Universidad del País Vasco. (Bilbao, Spain), October 1994, March 1996.
- Universidad de Sevilla. (Seville, Spain), May 1996.
- Universidad de Valencia. (Valencia, Spain), May 1996.
- Universidad de Málaga. (Málaga, Spain), April 1996.
- Universidad Zaragoza. (Zaragoza, Spain), October 1994, March 1996.
- University of Minnesota (Minneapolis, USA), April 1988, June 1988, November 1995.
- Universidad de la Habana. (La Habana, Cuba), April 1994.
- Université Paris Sud (Orsay, France), June 1992.
- Politécnico de Milano. (Milan, Italy), June 1992.
- Temple University (Philadelphia, USA), November 1988, March 1989.

GRANTS, AWARDS AND DISTINTIONS

Research Projects

- Group Project: #C.D.C.H Nro. 03-11-3880-99 *Teoría de Ondículas y sus aplicaciones.*
 Researcher in charge: Ventura Echanda
 Participants: Ileana Iribarren, Wilfredo Urbina.
 Sponsor: CDCH.
- Individual Project: # 03-14-4438-99 *Polinomios Ortogonales y Análisis Armónico.*
 Researcher in charge: Wilfredo Urbina
 Sponsor: CDCH.
- Direct support for research group: # G-97000668. *Contribución a la teoría de levantamiento y representación integral de formas invariantes y problemas de interpolación.*

Researcher in charge : Wilfredo Urbina

Participants: Ramón Bruzual, Marisela Domnguez, Mischa Cotlar, A. Octavio, S. Marcantognini, María Morán and Vladimir Straus.

Sponsor: FONACIT.

- International Project FONACIT-EcosNord: #PI-2000000860(V00M03 french code). *Análisis Armónico para la medida Gaussianas, Problemas de caracterización e Integrales Singulares.*

Venezuelan Researcher in charge: Wilfredo Urbina.

Sponsor: FONACIT.

- International Project FONACIT-CONICET:#PI-2000000002 *Análisis Armónico Gaussiano.*

Venezuelan Researcher in charge: Wilfredo Urbina.

Sponsor: FONACIT.

Awards and Distintions.

- 2003- 2009 PPI Level II. Fundación Venezolana de Promoción del Investigador.
- June 2003 José María Vargas award, first class. Highest honorary award given by Universidad Central de Venezuela.
- 2001-2003 PPI Level I. Fundación Venezolana de Promoción del Investigador.
- November 2000 José María Vargas award, second class. Honorary award given by Universidad Central de Venezuela.
- 1990-1992 PPI Level I. Fundación Venezolana de Promoción del Investigador-CONICIT.
- Sept 1983-Aug 1988 CDCH-UCV Scholarship for Doctoral Studies at University of Minnesota.

COURSES TAUGHT AT ROOSEVELT UNIVERSITY

MATH 116: Finite Mathematics. Online course (Summer 2012, Spring 2016).

MATH 121: College Algebra (Fall 2011, Summer 2015)
 MATH 122: Pre Calculus (Fall 2010, Spring 2011, Fall 2016)
 MATH 217: Elementary Statistics (Fall 2016, Spring 2017)
 MATH 231: Calculus I (Spring 2011, Fall 2014, Spring 2015, Spring 2016)
 MATH 232: Calculus II (Fall 2011, Spring 2012, Spring 2013, Fall 2013, Spring 2014, Spring 2017)
 MATH 233: Calculus III (Fall 2012)
 MATH 245: Discrete Structures (Spring 2012, Fall 2012)
 MATH 307: Differential Equations/Modeling. (Fall 2010, Fall 2012)
 MATH/CST 328: Linear Programming and Optimization (Summer 2013, Summer 2014, Summer 2016)
 MATH 330/430: Numerical Analysis (Spring 2010, Fall 2013)
 MATH/ACS 347 Mathematical Statistics (Fall 2015)
 MATH 352: Analysis (Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017)
 MATH 389/489: Top: Introduction to Wavelets Theory. (Spring 2013)
 MATH 389: Top: Discrete Modeling. (Summer 2014)
 MATH/ACS 348/448: Probability and Statistics II (Fall 2009, Spring 2015)
 MATH 395: Independent Study: PDE (Spring 2011, Spring 2013).
 MATH 395: Independent Study: Measure Theory (Spring 2013).
 MATH 446: Stochastic Processes (Spring 2011, Fall 2013, Fall 2015).
 MATH 447: Advanced Probability (Fall 2014, Spring 2016).
 MATH 495: Independent Study: Stochastic Integration (Spring 2013).
 MATH 495: Independent Study: Wavelet Theory (Fall 2016).

OTHER PROFESSIONAL ACTIVITIES

- Member of the Asociación Venezolana para el avance de la Ciencia (ASOVAC)
 - Member of the Board of Directors of the Caracas' chapter ASOVAC 1995 -1998.
- Member of the Asociación Matemática Venezolana (AMV).
 - Member of the Board of Directors of the Caracas' chapter AMV 1990 - 2004
 - President 2002 - 2004.
- Member of the Asociación para el avance de la investigación universitaria de la UCV(APIU-UCV)

- Member of the Board of Directors 1998 - 2000.
- Member of the Board of Directors 2004 - 2005.
- Member of the American Mathematical Society (AMS).
- Member of the Mathematical Association of America (MAA).
- Member of the Editorial Board of the volume *Harmonic Analysis, Partial Differential Equations, Complex Analysis, Banach Spaces, and Operator Theory* (Volume 1 & 2). Celebrating Cora Sadosky's life. Association for Women in Mathematics Series. Springer-Verlag 2016.
- Member of the Editorial Board of the volume *Special Functions, Partial Differential Equations and Harmonic Analysis. Proceedings from the conference in honor to Calixto P. Calderón* Springer-Verlag 2014.
- Co-organizer of the Special Session Harmonic Analysis and Operator Theory, in memory of Cora Sadosky AMS Western Spring Sectional Meeting Albuquerque, New Mexico. April 5-6, 2014.
- Co-organizer of the "An Afternoon in Honor of Cora Sadosky". 13 New Mexico Analysis Seminar, New Mexico. April 3-4, 2014.
- Co-organizer of the "An Afternoon in Honor to Micha Cotlar". 10 New Mexico Analysis Seminar, New Mexico. October 11-12, 2007.
- Co-organizer of the "International Conference on Harmonic Analysis and Operator Theory" in honor of Mischa Cotlar 80th birthday held at Caracas Venezuela from January 3rd to 7th of 1994.
- Member of the Editorial Board of the volume *Harmonic Analysis and Operator Theory. Papers from the conference in honor to Mischa Cotlar*. Contemporary Mathematics, 189. American Mathematical Society, RI (1995).
- Editor of Memorias de las XII Jornadas Matemáticas Venezolanas. Acta Científica Venezolana 52 (2001), Suplemento 2.
- Member of the Advisory Editorial committee of Divulgaciones Matemáticas. Universidad del Zulia. Maracaibo. Venezuela.
- Associated Editor of the Journal of Functional Spaces and Applications. Delhi. India.

- Reviewer for Mathematical Reviews, AMS since 2006.

UNIVERSITY SERVICE

- September 2016 - Present. Member of the Senate at Roosevelt University
- September 2016 - Present. Member of the CAS Curriculum Committee. Roosevelt University.
- September 2015 - March 2016 Member of the hiring committee, math department. Roosevelt University.
- September 2011 - Spring 2016. Graduate Coordinator. Department of Mathematics and Actuarial Sciences. Roosevelt University.
- September 2011 - Spring 2016. Member of the Graduate Council. Roosevelt University.
- September 2011- Present. Organizer of the Math Colloquium. Department of Mathematics and Actuarial Sciences. Roosevelt University.
- September 2013 - May 2016 Member of the Executive Committee, CAS. Roosevelt University.
- April 2014. Co-organizer of the Roosevelt Lectures in Mathematics: Richard Askey. Roosevelt University. April 18 & 19, 2014.
- September 2012 - March 2013 Member and coordinator of the hiring committee, math department.
- November 2012. Co-organizer of Special Functions, Partial Differential Equations and Harmonic Analysis, a conference in honor of Calixto P. Calderón. Roosevelt University. November, 16, 17 & 18, 2012.
- Spring 2012. Member of the Master in Mathematics Redesign Committee, math department. Roosevelt University.
- December 2011. Co-organizer of the Math X-Position. Department of Mathematics and Actuarial Sciences. Roosevelt University.
- September 2011 - December 2012. Member of the Senate at Roosevelt University

- September 2011. Participation in New Graduate Student Orientation. Roosevelt University.
- April 2011. Co-organizer of the Math & Science Research Symposium. Roosevelt University.
- Spring 2011. Retreat Committee. Department of Mathematics and Actua-rial Sciences. Roosevelt University.
- 2002 - 2004. Coordinator of the Analysis Center. School of Mathematics. UCV.
- 1997 - 2004. Member of the Mathematical Graduate Studies and Research Committee. School of Mathematics. UCV.
- 1999 - 2003. Coordinator of Graduate Studies in Mathematics. School of Mathematics. UCV.
- 1999 - 2002. Coordinator of the Technical Committee for Physics and Ma-thematics. FONACIT.
- 1999 - 2002. Coordinator of the project *Postgrados Integrados de Matemáticas*. FONACIT.
- 1999 - 2001. Coordinator of Graduate Studies in Stochastic Models. School of Mathematics. UCV.
- 1992 - 2000. Professors' representative to Consejo de la Facultad de Ciencias. UCV.
- 1992 - 1994. Coordinator of Graduate Studies in Mathematics. School of Mathematics. UCV.
- 1990 - 1994. Member of the Mathematical Graduate Studies and Research Committee. School of Mathematics. UCV.

RESEARCH SUPERVISED

- Adrian Infante (Master UCV-Caracas Venezuela 1996).
- Ignacio González (Master UCV-Caracas Venezuela-1996).
- Iris López (Master UCV-Caracas Venezuela-1998).
- Miguel Narváez (Master ULA-1999).

- Guissepe Lanza (Master UCV-Caracas Venezuela-2000).
- Lisandro Fermín (Master UCV-Caracas Venezuela-2000).
- Yamilet Quintana (Master UCV-Caracas Venezuela-2001).
- Abelardo Monsalve (Master IVIC-Altos de Pipe Venezuela 2002).
- Eduard Navas (Master IVIC-Altos de Pipe Venezuela 2005).
- Cristina Balderrama (Master UCV-Caracas Venezuela-Caracas Venezuela-2006).
- Iris López (Doctor UCV-Caracas Venezuela-2006).
- Cristina Balderrama (Doctor UCV-Caracas Venezuela-2008/Doctor Université d'Angers 2009).
- Ebner Pineda (Doctor UCV-Caracas Venezuela-2009).
- Eduard Navas (Doctor UCV-Caracas Venezuela-2014)
- Jorge Moreno (Doctor UCLA-Barquisimeto Venezuela -2014)

HONOR THESIS PROJECTS AT ROOSEVELT UNIVERSITY

- Tyrone Palmer (Spring 2014)
- Cuong Pham (Fall 2016)