

# Andrei Martinez-Finkelshtein, Ph.D.

## *EDUCATION:*

B.S. in Mathematics (1986), Havana University, Cuba

Ph. D. in Mathematics (1991) State Moscow University "M.V. Lomonosov", Russia

## *EMPLOYMENT:*

- Assistant Professor, 1986-1994, Havana University, Cuba
- Visiting Professor, 1993, University Autonoma of Madrid, Spain
- Visiting Professor, 1994, University Carlos III of Madrid, Spain
- Adjunct Professor, 1994-June 1998, University of Almería, Spain
- Associate Professor (tenure-track position), June 1998-April 1999, University of Almería, Spain
- Adjunct Professor, January-May 2000, Department of Mathematics, University of South Florida, USA
- Associate Professor, April 1999-November 2007, University of Almería, Spain
- Visiting Professor, August-December 2003, Department of Mathematics, Vanderbilt University, USA
- Visiting Professor, August-December 2014, [Department of Mathematics, Vanderbilt University, USA](#)
- Full Professor, November 2007 - present, University of Almería, Spain.
- Visiting Researcher, 2014-2016, [Instituto de Biociências, Letras e Ciências Exatas \(IBILCE\), UNESP, Brazil.](#)
- Visiting Professor, 2014-2016, [Department of Mathematics, Shanghai Jiao Tong University, China](#)
- Professor of Mathematics, since 2018, [Baylor University, USA.](#)

## *APPOINTMENTS AND MEMBERSHIP:*

- Associated Member of "[Carlos I" Institute for Theoretical and Computational Physics of Granada University](#)
- Member of the [American Mathematical Society](#) since 1993
- Member of the [Society for Industrial and Applied Mathematics \(SIAM\)](#), since 1998, and of the [SIAM Activity Group "Orthogonal Polynomials and Special Functions"](#) (vice-chair of SIAG January 1, 2017 to December 31, 2019; Program Director, January 1, 2020-present).
- Member of the Spanish Society for History of Science and Technology since 1997
- Member of the [Real Sociedad Matemática Española](#) since 1999
- Member of the [Spanish Society of Applied Mathematics \(SEMA\)](#) since 2006

- Member of the [Association for Research in Vision and Ophthalmology \(ARVO\)](#) since 2009
- Member of the Asociación Española de Tecnología y Cirugía de Implantes, Refractiva y Córnea (ASETCIRC), 2009-2015
- Chairman of the research workgroup "Approximation Theory and Orthogonal Polynomials", code FQM 0229 of Junta de Andalucía, 1995-2012.
- Coordinator of the Area of Mathematics at the Spanish Grant National Agency of Assessment (ANEP), and later, of the Division of Coordination, Assessment and Scientific and Technical Monitoring of the Spanish Research Agency (2015-2019).
- Founder and Director of R&D at Neurobia Research, 2015-2018.

### *Ph. D. STUDENTS:*

- Juan José Moreno Balcázar, "Analytic properties of continuous Sobolev orthogonal polynomials" (co-advised with Miguel Piñar), University of Almería, October 6, 1997.
- Pedro Martínez Gonzalez, "Methods of study of the zero asymptotics of special functions" (co-advised with Alejandro Zarzo), University of Almería, July 4, 2001.
- [Pedro Lopez Artés](#), "Entropies, potentials and linearization of hypergeometric polynomials" (co-advised with Jesús Sánchez Dehesa), University of Almería, April 9, 2002.
- Joaquín Sánchez Lara, "Entropies of orthogonal polynomials", University of Almería, July 2005.
- Vítor Luís Sousa, "The Riemann–Hilbert Method Applied to the Theory of Orthogonal Polynomials" (co-advised with Ana Foulquié), University of Aveiro, January 17, 2011.
- Darío Ramos López, "Mathematical modelling in biomedical optics and ophthalmology", University of Almería, May 12, 2014.
- Ana B. Castaño Fernández, "Some mathematical problems from the biomedical optics and ophthalmology", University of Almería, November 27, 2017.
- Taylor Poe, "Poncelet Polygons Through the Lenses of Orthogonal Polynomials on the Unit Circle, Finite Blaschke Products, and Numerical Ranges" (co-advised with Brian Simanek), Baylor University, June 17, 2021.

### *EDITORIAL POSITIONS:*

- [Computational Methods and Function Theory](#)
- [Journal of Approximation Theory](#)
- [Journal of Spectral Theory](#)
- [Random Matrices: Theory and Applications](#) (until 2021)
- [Mathematics of Computation](#)

- [Journal of Mathematical Analysis and Applications](#) (until 2021)

**CURRENT RESEARCH PROJECTS WITH FINANCIAL SUPPORT:**

- *"The Baylor Analysis Conference: From Operator Theory to Orthogonal Polynomials, Combinatorics, and Number Theory"*, NSF grant [DMS-1952977](#). Principal Investigators: Fritz Gesztesy and Andrei Martínez-Finkelshtein (1/1/2020-12/31/2022).
- *"Asymptotic methods for non-standard orthogonality"*, Simons Foundation Collaboration Grants for Mathematicians (grant 710499), 9/1/2021–8/31/2025. Principal Investigator: Andrei Martínez-Finkelshtein.