

## LUIS ÁNGEL CAFFARELLI

## CURRICULUM VITAE

**Date of Birth** December 08, 1948  
**Birthplace** Buenos Aires, Argentina  
**Citizenship** USA/Argentina

**Current Position** Sid W. Richardson Foundation Regents Chair in Mathematics No. 1  
Professor of Mathematics, Department of Mathematics, University of Texas at Austin and  
The Institute for Computational Engineering and Sciences

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### Academic Degrees

PhD University of Buenos Aires, 1972  
MS University of Buenos Aires, 1969

### Scientific Career

1997- Professor, University of Texas at Austin  
1994-97 Professor, Courant Institute - NYU  
1986-96 Professor, Institute for Advanced Study - Princeton  
1983-86 Professor, University of Chicago  
1980-82 Professor, Courant Institute of Mathematical Sciences, NYU  
1979-83 Professor, University of Minnesota  
1977-79 Associate Professor, University of Minnesota  
1975-77 Assistant Professor, University of Minnesota  
1973-74 Postdoctoral Fellow, University of Minnesota

### Professional Memberships

National Academy of Sciences  
American Academy of Arts and Sciences  
Academy of Medicine, Engineering and Science of Texas  
American Mathematical Society  
Association for Women in Mathematics  
Society for Industrial and Applied Mathematics  
Pontifical Academy of Sciences, Vatican City, Italy  
Royal Spanish Academy of Sciences  
Unión Matemática Argentina  
Academia Nacional de Ciencias Exactas, Físicas y Naturales, Argentina  
Academia Nacional de Ciencias: Córdoba, Argentina  
L'Accademia Nazionale delle Scienze detta dei XL, Italy  
L'Accademia Nazionale dei Lincei, Italy  
L'Istituto Lombardo Accademia di Scienze e Lettere, Italy

- 2016 **Honorary Researcher (IMPA)**, Rio de Janeiro, Brazil
- 2015 **Elected Member** *Royal Spanish Academy of Sciences, Madrid*
- 2014 **Career Research Excellence Award** *UT Co-op, Austin, Texas*
- 2014 **Doctor Honoris Causa** *Univ Nacional del Litoral, Santa Fe, Argentina*
- 2014 **Leroy P. Steele Prize for Seminal Contribution to Research** *AMS*
- 2013 **Solomon Lefschetz Medal** *Mathematical Congress of the Americas*
- 2013 **Honorary Doctor of Science** *University of Chicago*
- 2012 **The Wolf Prize in Mathematics** *The Wolf Foundation, Tel Aviv, Israel*
- 2012 **Doctor Honoris Causa** *Universidad de Buenos Aires, Argentina*
- 2012 **Honorary Doctor of Science** *University of Notre Dame, Indiana*
- 2012 **President of the Jury**, *International Mathematical Olympiad, Argentina*
- 2009 **Leroy P. Steele Prize for Lifetime Achievement** *AMS*
- 2007 **Doctor Honoris Causa** *Universidad Nacional de San Luis, Argentina*
- 2005 **The Rolf Schock Prize** *Royal Swedish Academy of Sciences, Stockholm*
- 2003 **Diamond Konex Science and Technology**, *Fundación Konex, Argentina*
- 2003 **Doctor Honoris Causa** *École Normale Supérieure, Paris*
- 2003 **Doctor Honoris Causa** *Universidad Nacional de La Plata, Argentina*
- 1997 **President of the Jury** *International Mathematical Olympiad*
- 1994 **Elected Member** *Pontifical Academy of Sciences, Vatican City*
- 1992 **Doctor Honoris Causa** *Universidad Autónoma de Madrid*
- 1991 **Elected Member** *National Academy of Sciences*
- 1988 **Pius XI Gold Medal** *Pontifical Academy of Sciences*
- 1986 **Elected Fellow** *American Academy of Arts & Sciences*
- 1984 **Guggenheim Fellowship**, *New York, NY*
- 1984 **Bôcher Memorial Prize** *American Mathematical Society (AMS)*
- 1982 **Stampacchia Prize** *(co-awarded)*

MEMBER: Advisory Board, *Miller Institute for Basic Research in Science: UC Berkeley*

MEMBER: TAMEST O'Donnell Awards Selection Committee  
*The Academy of Medicine, Engineering and Science of Texas: Science Subcommittee*

MEMBER: Scientific Advisory Panel, *The Fields Institute for Research in Mathematical Sciences*

PANEL MEMBER: CLASS I, SECTION I MATHEMATICS, *American Academy of Arts and Sciences*

AMS COMMITTEE (NATLAWARDS & Colloquium Lectures) *American Mathematical Society*

ADVISORY PANEL MEMBER: *Simons Foundation Fellows and Math+X Investigators*

REVIEWER: National Science Foundation Focused Research Group (FRG)

REVIEWER: European Research Council Advanced Grants & Consolidator Grants

PEER REVIEW PANEL

*IMT Institut de Mathématiques de Toulouse*

*IRIT Institut de Recherche en Informatique de Toulouse*

REFEREE ANVUR Agenzia di Valutazione del Sistema Universitario e della Ricerca  
*The National Agency for Evaluation of Universities & Research Institutes in Italy.*

MEMBER: Scientific Council, Centro Internacional de Matemática, *Coimbra, Portugal*

Co-DIRECTOR UT-Portugal Program in Mathematics - CoLab  
*Portuguese Science & Technology Foundation (FCT) Lisbon*

PEER REVIEWER EPSRC *Engineering & Physical Sciences Research Council, UK*

SCIENTIFIC STEERING COMMITTEE OxpDE: Mathematical Institute  
*University of Oxford, Centre for Nonlinear PDE CDT*

REVIEWER CONICET Consejo Nacional de Investigaciones Científicas y Técnicas  
*National Research Council: Scientific and Technical, Argentina*

MEMBER: INTERNATIONAL SCIENTIFIC COMMITTEE CMM  
*Center for Mathematical Modeling, Universidad de Chile, Santiago*

MEMBER: DEPARTMENT OF MATHEMATICAL SCIENCES ADVISORY BOARD  
*Carnegie Mellon University, Pittsburg, PA*

INTERNATIONAL EXPERT: National Center for Educational Quality Enrichment  
*Republic of Georgia*

## Luis A. Caffarelli

## EDITORIAL AFFILIATIONS

Advances in Nonlinear Studies (ANS)	<i>Editorial Board</i>
Analysis & PDE	<i>Board of Editors</i>
Annales de L'institut Henri Poincare Analyse Non Lineaire (AIHP)	<i>Editorial Board</i>
Annali di Matematica Pura ed Applicata (AMPA)	<i>Editor</i>
Bulletin of the Brazilian Mathematical Society	<i>Editorial Board</i>
Bulletin of the Institute of Mathematics, Academia Sinica	<i>Editor</i>
Calculus of Variations and Partial Differential Equations	<i>Editorial Board</i>
Collectanea Mathematica	<i>Associated Editor</i>
Communications in Contemporary Mathematics (CCM)	<i>Editor</i>
Communications in Mathematical Physics (CMP)	<i>Editorial Board</i>
Communications in Partial Differential Equations (CPDE)	<i>Editorial Board</i>
Electronic Journal of Differential Equations (EJDE)	<i>Editorial Board</i>
Interfaces and Free boundaries (IFB)	<i>Associate Editor</i>
Journal of Evolution Equations (JEE)	<i>Editorial Board</i>
Journal of Fourier Analysis and Applications	<i>Executive Editor</i>
Journal of Geometric Analysis (JGA)	<i>Executive Editor</i>
MAT. Série A Conferencias, seminarios y trabajos de matemática	<i>Editorial &amp; Scientific Committee</i>
Mathematical Models & Methods in Applied Sciences (M3AS)	<i>Associate Editor</i>
Milan Journal of Mathematics	<i>Editorial Board</i>
New York Journal of Mathematics (NYJM)	<i>Editor</i>
Proceedings of the National Academy of Sciences (PNAS)	<i>Editor</i>
Rendiconti Lincei: Matematica e Applicazioni	<i>Advisory Committee</i>
Revista del la Unión Matemática Argentina	<i>Editorial Board</i>
Revista Matemática Iberoamericana (RMI)	<i>Editorial Board</i>

- 2017 **CAS President's International Fellowship for Distinguished Scientists**  
*Chinese Academy of Sciences (CAS); Beijing, China*
- 2017 **ICTP Colloquium Lecture: Nonlocal Partial Differential Equations and Applications to Geometry, Physics and Probability**  
*Abdus Salam International Centre for Theoretical Physics (ICTP); Trieste, Italy*
- 2017 **Kempf Lecture Series: In honor of George Kempf**  
*Department of Mathematics, Johns Hopkins University, Baltimore, MD*
- 2016 **Coxeter Lecture Series: In conjunction with a Focus Program on Nonlocal PDE**  
*The Fields Institute for Research in Mathematical Sciences, Toronto, Canada*
- 2016 **Invited Speaker: Concluding the Special Program on Nonlinear Equations**  
*Center of Mathematical Sciences & Applications, Harvard University, Cambridge, MA*
- 2016 **Distinguished Lecture Series: Gergen Lectures**  
*Department of Mathematics, Duke University, Durham, NC*
- 2016 **Plenary Speaker: 27th Nordic Congress of Mathematics, Celebrating the 100th anniversary of Institut Mittag-Leffler:** *Stockholm University, Stockholm, Sweden*
- 2016 **Invited Speaker: Workshop Analysis in Lyon**  
*ENS de Lyon and Université Claude-Bernard Lyon I, Lyon, France*
- 2015 **Distinguished Lecture Series: CAPES School of High Studies**  
*Instituto Nacional de Matemática Pura e Aplicada (IMPA) Rio de Janeiro, Brazil*
- 2014 **Master Lectures on Mathematics:** *Tsinghua Sanya International Mathematics Forum, Sanya, China*
- 2014 **Plenary Speaker: Plenary Session, Evolving Concepts of Nature**  
*Pontificia Accademia delle Scienze, Vatican City, Rome*
- 2014 **Radó Lecture Series:** *Ohio State University, Columbus, Ohio*
- 2014 **Invited Speaker: Recent advances in nonlocal and nonlinear analysis theory**  
*Institute for Mathematical Research (FIM) ETH Zurich, Switzerland*
- 2014 **Rothschild Distinguished Visiting Fellow: Program on Free Boundary Problems**  
*Isaac Newton Institute, Cambridge, UK*
- 2014 **Distinguished Lecture Series: Center for Mathematical Sciences Lectures**  
*Technion - Israel Institute of Technology, Haifa, Israel*
- 2014 **Maseeh Lecture: Fariborz Maseeh Department of Mathematics and Statistics**  
*Portland State University*

- 2013 **Invited Speaker: 51<sup>st</sup> Conference of the Society for Natural Philosophy:**  
*'Mathematics and Mechanics in the Physical Sciences: A Tribute to James Serrin'*  
*University of Minnesota & IMA*
- 2013 **Plenary Lecture: Mathematical Congress of the Americas (MCA)**  
*Guanajuato, Mexico*
- 2013 **President's Distinguished Visiting Lecture: KAUST Center**  
*The King Abdullah University of Science and Technology; Jeddah, Saudi Arabia*
- 2013 **Colloquium Magenes:** *Applied Mathematics Seminar, dell'Università di Pavia, l'Istituto di Matematica Applicata e Tecnologie Informatiche (IMATI) del CNR, Pavia, Italy*
- 2012 **Plenary Speaker: Complexity and Analogy in Science: Theoretical, Methodological and Epistemological Aspects:** *Pontifical Academy of Sciences  
Vatican City, Rome*
- 2012 **Plenary Lecture: IMPA, 60 years:** *Rio de Janeiro, Brazil*
- 2012 **Summer Course UIMP: Frontiers of Mathematics and Applications III**  
*Santander, Spain*
- 2012 **Wolf Prize Lecture:** *The Knesset Building, Jerusalem, Israel*
- 2011 **Plenary Lecture: III MACI 2011 Third Conference on Applied, Computational and Industrial Mathematics:** *Department of Mathematics of the Universidad Nacional del Sur, Argentinean Section of the Society for Industrial and Applied Mathematics (AR-SIAM) and Argentinean Association for Industrial, Computational and Applied Mathematics (ASAMACI)*
- 2011 **Invited Speaker: Celebration of Mathematical Sciences in Memory of Shiing-Shen Chern's 100th birthday:** *Academia Sinica: Taipei, Taiwan*
- 2011 **Invited Speaker: Analysis & Applications: In Honor of Elias M. Stein**  
*Princeton University, Department of Mathematics, Princeton, NJ*
- 2011 **MSRI-Evans Lecture:** *University of California, Berkeley*
- 2011 **The Rouse Ball Lecture:** *Centre for Mathematical Sciences: Cambridge, UK*
- 2010 **The Abel Symposium:** *The Norwegian Mathematical Society: Oslo, Norway*
- 2009 **Minicourse: Geometric PDE:** *Institute for Advanced Study: Princeton University*
- 2007 **ICIAM07 Plenary Lecture:** *6th ICIAM: Zurich, Switzerland*
- 2005 **The Milliman Lectures:** *University of Washington*
- 2005 **Lecture Series: Mathematical Sciences Research Institute (MSRI):** *Berkeley, CA*

- 2004 **Current Developments in Mathematics Lectures:** *Harvard University, Cambridge, MA*
- 2003 **Invited Lecture: Conference in honor of Laurent Schwartz:** *Ecole Polytechnique*
- 2003 **Plenary Lecture: 25<sup>th</sup> Anniversary Midwest PDE Seminar:** *Northwestern University*
- 2002 **ICM02 Plenary Lecture:** *The International Congress of Mathematicians, Beijing, China*
- 2002 **Invited Speaker: Congress in memory of J. L. Lions:** *Collège de France, Paris*
- 2002 **Joseph D'Atri Memorial Lecture:** *Rutgers University, New Jersey*
- 2001 **Chemerdas Lectures in Science:** *Eberly College of Science, Penn State University*
- 2000 **The Millennium Lectures:** *Department of Mathematics, University of Texas*
- 1999 **Invited Lecture: Science and the Future of Mankind:** *Pontifical Academy of Sciences*
- 1998 **The Fermi Lectures:** *La Scuola Normale Superiore di Pisa (SNS)*
- 1997 **NSF-CBMS Lecturer: Conference on the Monge Ampere Equation:  
Applications to Geometry and Optimization:** *Florida Atlantic University*
- 1993 **American Mathematical Society (AMS) Colloquium Lectures**
- 1988 **Invited Lecture: AMS Centennial Symposium: Math into the 21<sup>st</sup> Century;**  
*Providence, RI*
- 1987 **Invited Lectures: Elliptic Second Order Equations:** *Accademia dei Lincei at the  
Politecnico de Milano, Italy*
- 1985 **Hermann Weyl Lectures: Free Boundary Problems:** *IAS, Princeton*