

Mariel Sáez Trumper

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Research Interests

Geometric Analysis, Differential Geometry, Partial Differential Equations.

Education

- 2000–2005 **Ph.D. in Mathematics**, *Stanford University*, California, USA.
- 1994–2000 **Ingeniero Civil en Matemáticas (Professional degree)**, *Universidad de Chile*, Chile.
- 1994–1998 **Licenciatura en Ciencias de la Ingeniería mención Matemáticas**, *Universidad de Chile*, Chile.

Honors and Awards

- 2024 **CRM-Simons Professor**, (*May 1, 2024, to June 28*).
- 2024–2025 **MathAmSud**, “*Mixed local and nonlocal equations: analytic, numerical and probabilistic aspects*” (*MILnE*), code AMSUD23001.
- 2019–2023 **Proyecto Fondecyt Regular 1190388 (Research Grant)**, *CONICYT*, Chile, (One year extension due to COVID19).
- 2019 **International Exchanges 2017**, *Royal Society*, UK.
- 2018–2019 **Leverhulme Visiting Professorship (awarded on 2107)**, *Leverhulme Trust*, UK.
- 2017 **Robert Bartnik Fellowship**, *Monash University*, Australia.
- 2015–2019 **Proyecto Fondecyt Regular 1150014 (Research Grant)**, *CONICYT*, Chile.
- 2012–2016 **Proyecto 7912010001 Programa de atracción e inserción de capital humano avanzado**, title: “*Fortalecimiento del área de geometría*”, Sponsoring researcher, *CONICYT*, Chile.
- 2011–2015 **Proyecto Fondecyt Regular 1110048 (Research Grant)**, *CONICYT*, Chile.
- 2010–2013 **Proyecto Anillo ACT-125, Center for Analysis of Partial Differential Equations (Research Grant)**, *Chile*.
- 2007–2010 **Proyecto Fondecyt 11070025 de Iniciación en Investigación (Research Grant)**, *CONICYT*, Chile.

Experience

- Winter–semester 2013 **Visiting professor**, *Freie Universität*, Berlin, Germany.
- 2012–present **Associate Professor**, *Pontificia Universidad Católica de Chile*, Chile.
 - 2009 **Juniorprofessorin der Besoldungsgruppe W1 für das Fachgebiet Analysis, Geometrie und Mathematische Physik**, *Freie Universität*, Berlin, Germany. (declined)
- 2008–2012 **Assistant Professor**, *Pontificia Universidad Católica de Chile*, Chile.
- 2005–2008 **Postdoctoral Fellow**, *Max Planck Institute for Gravitational Physics (Albert Einstein Institute)*, Germany.

Academic visits (selected)

Long term

- May-June 2024 **CRM-Simons Professor**, *Centre de Recherchés Mathémathtiques*, at the CRM from May 1, 2024 Special thematic semester in geometric analysis, Montreal, Canada.
- September 2019 **Research Member**, *Mathematical Sciences Research Institute (MSRI)*, Program *Microlocal Analysis*, Berkeley, USA.
- June 2019 **Royal Society Visiting Professor**, *University College of London*, London, UK.
- January-February 2019 **Leverhulme Visiting Professor**, *University College of London*, London, UK.
- May-June 2018 **Leverhulme Visiting Professor**, *University College of London*, London, UK.
- October-November 2017 **Visiting Professor**, *Monash University*, Australia.
- January-February, April-May, 2016 **Research Member**, *Mathematical Sciences Research Institute (MSRI)*, Program *Differential Geometry*, Berkeley, USA.
- Winter-semester 2013-2014 **Visiting professor at Berlin Mathematical School**, *Freie Universität*, Germany.
- August-November, 2008 **Research Member**, *Mathematical Sciences Research Institute (MSRI)*, Program *Analysis on Singular Spaces*, Berkeley, USA.

Selected Academic Talks (seminars and conferences)

- January 2023 **Workshop on Differential Geometry**, Granada, Spain.
- July 2022 **Workshop Mean Curvature Flow and Related Topics**, London, UK.
- July 2021 **8th Mathematical Congress of the Americas**, Buenos Aires, Argentina, (virtual).
- August 2020 **Pacific Rim Conference (session Recent Trends in Geometric Analysis)**, Berkeley, USA, (virtual).
- May 2019 **Women In Geometry 2**, Oaxaca, Mexico.
- May 2018 **GAPDE seminar at University of Cambridge**, Cambridge, UK.

Administrative Duties

- 2023-2027 **Representative of Latinamerica at the committee for developing countries**, *International Mathematical Union*.
- 2022-present **Director of outreach activities**, *Facultad de Matemáticas*, UC.
- 2016-2019 **Member of the study group for Fondecyt grant**.
- 2018-2022 **Mathematics Graduate program director**.
- 2014-2016 **Coordinator of the mathematics section at “Programa de formación de capital humano”**, Conicyt, Chile.
- 2014-2017 **Director of the department of Mathematics at P. Universidad Católica de Chile**.

Languages

- Spanish Native
- English Fluent
- German Intermediate
- French, Basic
- Turkish

Other Information

Citizenship **Chilean.**

Graduate Students **Karen Corrales (Ph.d 2015), José Gabriel Torres (Master 2015), Sebastián Muñoz (Master 2021), Cristián Figueroa (Master 2023), José Gabriel Torres (Ph.D 2023), Agustín Oyarce (Master 2024). Maria Fernanda Espinal (Ph.D. 2024) .**

Organized conferences (selected)

- **Analysis of Geometric Singularities**, *May 2024*, Montreal, Canada.
- **PRIMA (Geometric Analysis Session)**, *December 2022*, Vancouver, Canada.
- **Early Career Workshop On Analysis and PDE**, *January 2020*, Creswick, Australia.
- **II Encuentro de Mujeres Matemáticas de América Latina**, *January 2018*.
- **CIMPA-ICTP Minimal Surfaces, overdetermined problems and geometric analysis**, *April 2015*.
- **Second Sino-Chilean conference Conference on Nonlinear Elliptic and Parabolic Equations**, *July 2012*.