# Rafael Tiedra

*Mathematical physicist with various years of experience in research, IT, education and administration.*

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| Date of birth | 05.03.1976 |
| Nationality | Swiss and Spanish |
| Languages | French (native), English and Spanish (fluent) |

## Skills

### Research and teaching

Problem solving, research in physics and mathematics (44 scientific publications).
Scientific presentation/vulgarisation (125 talks).
Classroom and online teaching.

### Academic and corporate administration

Management, budgets, fundraising, organisation of events and conferences.
Writing and editing publications, popular science, translation, digital communication.
Recruitment, conception of specifications and curriculums, project management.

## Programming

**Languages/skills:** Python, SQL, Machine Learning, Jupyter, HTML, Git, LaTex.
**IT:** MS Office, Linux, Windows OS.

## Professional experiences

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| 2021-present | **Visiting professor**, Swiss Federal Institute of Technology |
| 2009-2022 | **Professor**, Pontifical Catholic University, Chile |
| 2007-2009 | **Postdoctoral researcher**, University of Cergy-Pontoise, France |
| 2005-2007 | **Postdoctoral researcher**, University of Paris-Sud, France |

## Studies

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|---|---|
| June 2005 | **PhD in Physics**, *University of Geneva* |
| October 2001 | **BSc in Mathematics**, *University of Geneva* |
| July 2001 | **MSc in Physics**, *University of Geneva* |

## Prizes and research grants

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| 2009, 2013, 2017, 2021 | Chilean Fondecyt grants (501'000 USD) |
| 2009, 2014 | Chilean Milenio grants (2'338'000 USD) |
| 2011 | French-Chilean ECOS-CONICYT grant |
| 2005, 2007 | Swiss NSF grants (138'000 USD) |
| 2001 | Fanny Wurth scholarship |
| 2001 | Hans Wilsdorf scholarship (Rolex) |
| 1998, 1999, 2000, 2001 | Canton of Geneva scholarships |

## Interests and hobbies

Science, jazz, finance, badminton.