

Rafael Tiedra

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

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/vulgarization (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 curriculums, project management

Programming

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

Professional experiences

2022-present Data Scientist, Geneva's Government - OCSIN, Switzerland

2021-2022 Visiting professor, Swiss Federal Institute of Technology Lausanne, Switzerland

2009-2022 Associate professor, Pontifical Catholic University, Chile

2005-2009 Postdoctoral researcher, Universities of Paris-Sud and Cergy-Pontoise, France

Studies

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

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