



Rodrigo Andre Zelada Mancini

Ph.D. candidate in Applied Mathematics.

- August 09, 1994
- Pau, France.
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Social Network —

- [linkedin.com/in/rodrigo-andre-zelada-mancini-b15553184/](https://www.linkedin.com/in/rodrigo-andre-zelada-mancini-b15553184/)
- github.com/RodrigoZelada

Skills —

- Relationship building
- Organized
- Persistent
- Collaborator
- Compromised
- Work to achieve goals.

Education

- 2013 – 2019 **Mathematical Engineer** University of Chile
- 2016 – 2018 **Additional Specialization: Minor in Astronomy** University of Chile
- 2019 – 2020 **Master in Engineering Sciences, minor Applied Mathematics** University of Chile
- 2021 – 2024 **Ph.D. student in Applied Mathematics** University of Chile (cotutelle) (expected)
- 2022 – 2024 **Ph.D. student in Applied Mathematics** UPPA (cotutelle) (expected) Université de Pau et des Pays de l'Adour

Working Experience

- February 2022 - Now **PhD Thesis** University of Chile and UPPA
Shape optimization for a heat exchanger problem, with a asymptotic analysis to avoid a thin layer between two fluids and dealing with the Laplace-Beltrami operator.
- June 2020 - March 2021 **Supply Chain Analyst** Fork Chile
Implementation of Machine Learning algorithms and Statistical tools to predict sales (Forecasting).
- 2019–2020 **Research and Thesis** University of Chile
Hydrodynamic model of the Red Tide in Quellón Bay. Advisor: Carlos Conca, Co-advisor: Jorge San Martín.
- January 2017 **Professional Internship I** DAS (Department of Astronomy)
Maximum Entropy Method for radio astronomical synthesis image. Supervision: PhD. Simón Cassasus, PhD. Pablo Román and PhD. Axel Osses.
- January 2018 **Professional Internship II** DIM (Department of Mathematical Engineering)
A computational algorithm for the Legendre-Fenchel conjugate. Supervision: PhD. Abderrahim Hantoute.
- January 2019 **Professional Internship III** CMM (Center for Mathematical Modeling)
Validation of numerical algorithms for the Stokes and the Navier-Stokes equations. Supervision: PhD. Raúl Gormaz.

Awards

- 2018 Highlighted Student Facultad de Ciencias Físicas y Matemáticas
- 2021 Doctoral scholarship ANID - Chili's government

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About me

I am enthusiastic about applied mathematics and programming. More than a specific area, I am interested in real life problems; modelling problems and to solve them with mathematics as a tool. I am curious as a scientist, I am not afraid about new knowledge.

Interests

Scientific programming


Finite elements method


Shape optimization

Deep learning

Languages

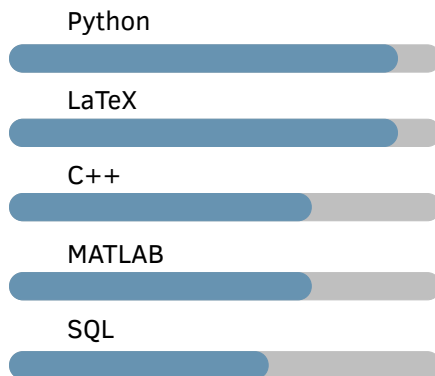
 Spanish (Native)

 French (DALF C1)

 English (Cambridge B2)



Programming



Maths. and C.S. Softwares

