

Rodrigo Andre Zelada Mancini

Mathematical Engineer, M. Sc. Eng. in Applied Mathematics.

- August 09, 1994
- Estación Central, Santiago, Chile.
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Social Network —



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github.com/RodrigoZelada

Skills -

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

Education

2013 - 2019 Mathematical Engineer

Universidad de Chile

Master in Engineering Sciences, 2019 - 2020

minor Applied Mathematics

Universidad de Chile

Additional Specialization: Minor in 2016 - 2018 Astronomy

Universidad de Chile

Working Experience

June 2020 -**Supply Chain Analyst** March 2021

Fork Chile

- · Implementation of Machine Learning algorithms and Statistical tools to predict sales (Forecasting).
- Develop a model that integrates production, inventory and distribution of perishable products in a supply chain environment, with products that have differents shelf-lives.

2019-2020 Research and Thesis Universidad de Chile

Hydrodynamic model of the Red Tide in Quellón Bay. Advisor: Carlos Conca, Co-advisor: Jorge San Martín.

- · Implementation of the Navier-Stokes equations and the Advection-Difussion equation in MATLAB, using the Finite Volume Method.
- Compare the solutions obtained in MATLAB with the open source CFD software OpenFOAM, in which we modified a solver.
- · Graduated with highest honors.

January 2017

Professional Internship I DAS (Department of Astronomy) Maximumum 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.

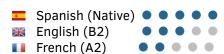
January 2019

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

Languages



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About me

I am enthusiastic about applied mathematics and programming. More than a specific area, I'm 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. I believe that the world can be understand from the perspective of physics, and how this is described with partial differential equations. I am a versatile researcher and a fast learner.

Interests -

Mathematical Mechanics

Fluid Dynamics

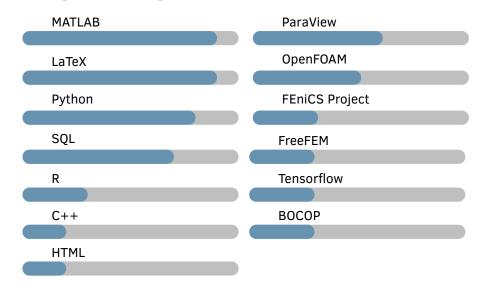
Inverse Problems

Shape Optimization

Deep Learning

Programming

Maths. and C.S. Softwares



Teaching

Fall 2016	Test grader MA2002 - Advanced Calculus
Spring 2016	Test grader MA2002 - Advanced Calculus
Fall 2019	Teacher's assistant MA5602 - Evolution Problems
Spring 2019	Teacher's assistant MA1101 - Introduction to Algebra
Spring 2019	Tutor SIPEE's Program MA1102 - Introduction to Algebra
Spring 2019	Test grader MA1002 - Single Variable Calculus
Spring 2019	Tutor SIPEEE's Program MA1002 - Single Variable Calculus
Spring 2019	Test grader MA1102 - Linear Algebra

Seminars

November 27 Workshop CeBIB (Centre for Biotechnology and Bioengineer-29, 2020 ing)

Poster presentation: Hydrodynamical model of Red Tide in Quellón Bay

Extracurricular activities

2015-2018	cde! member (Student Development Center) I participated in a social group at University called Cde!, w consisted of doing volunteer work during the holidays and ing regularly Sename's children.	
Autumn 2015	Volunteer Work in San Clemente We painted a rural school and put grass.	cde!
Winter 2017	Volunteer Work in Colina Sustainable garden construction at Font School.	cde!
2017-2018	Secretary	cde!
2017	Sustainability Representative	DIM