

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 —

in

linkedin.com/in/rodrigoandre-zelada-mancinib15553184/



github.com/RodrigoZelada

Skills -

4 Enthusiast

Persistent

Work to achieve goals.

Referees -

- Professor PhD. Carlos Conca Mail: cconca@dim.uchile.cl Phone: +56 2 2978 4459
- Professor PhD. Jorge San Martin

Mail: jorge@dim.uchile.cl Phone: +56 2 2978 4473

- Professor PhD. Juan Peypouquet Mail: jpeypou@dim.uchile.cl Phone: +56 2 2978 0952
- Professor PhD. Daniel Quiroz Mail: dquiroz@dim.uchile.cl Phone: +56 2 2977 7541

Education

2013 - 2019 Mathematical Engineer

Grade: 6.5/7.0

2019 – 2020 Master in Engineering Sciences, minor Applied Mathematics

Grade: 6.6/7.0

2016 – 2018 Additional Specialization: Minor in

Astronomy

Grade: 6.2/7.0

Universidad de Chile

Universidad de Chile

Universidad de Chile

Working Experience

2019–2020 Research and Thesis

Universidad de Chile

Hydrodynamical 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.
- Use of the open source CFD software OpenFOAM to solve the equations and compare the solutions obtained with the method implemented in MATLAB.
- Grade: 7.0/7.0. Graduated with maximum distinction.

Professional Internship IDAS (Department of Astronomy))
Treatment of images via interferometry. Supervision: PhD. Simón

Cassasus and PhD. Pablo Román. Classification: 7.0/7.0

January Professional

Internship II

Computational algorithm for the Legendre-Fenchel conjugate.

DIM (Department of Mathematics Engineering)

Supervision: Dr. Abderrahim Hantoute. Classification: 7.0/7.0

January 2019

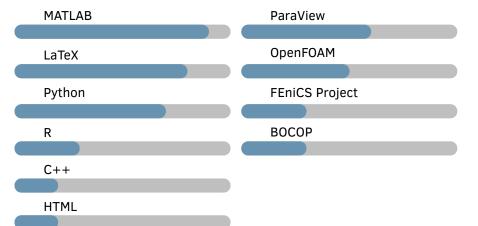
January

2017

2018

Professional Internship III CMM (Center for Mathematical Model) Study of Stokes and Navier-Stokes, validation of numerical algorithms. Supervision: PhD. Raúl Gormaz. Classification: 7.0/7.0

Programming Mathematical Softwares



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About me

I am passionate about math and programming. More than a specific area, I'm interested in real life problems; to model problems and solve them with mathematics as a tool. I am curious as a scientist, I like to be constantly acquiring new knowledge.

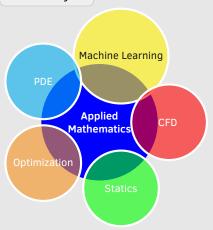
Interests -

Computer Science

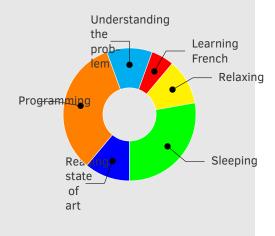
Mathematical Modelling

Numerical Analysis

Data Analysis



A day of work



Seminars

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

Poster presentation: Hydrodynamical model of Red Tide in Quellón Bay

Awards

2018 Highlighted Student Facultad de Ciencias Físicas y Matemáticas

Teaching

Fall 2016	Test grader MA2002 - Advanced Calculus
Spring 2016	Test grader MA2002 - Advanced Calculus
Fall 2019	Teacher's assistant MA5602 - Non stationnary modeling
Spring 2019	Profesor Auxiliar MA1101 - Introduction to Álgebra
Spring 2019	Tutor SIPEE's Program MA1102 - Introduction to Álgebra
Spring 2019	Ayudante MA1002 - Single Variable Calculus
Spring 2019	Tutor SIPEEE's Program MA1002 - Single Variable Calculus
Spring 2019	Test grader MA1102 - Linear Algebra

Languages

4	Spanish (Native)			
	(B1)			
	French (A1)			

Extracurricular activities

2015-2018	cde! member (Student Development Center) FCFM
	I participated in a social group at University called Cde!, which
	consisted of doing volunteer work during the holidays and visit-
	ing regularly Sename's children.

Autumn 2015	Volunteer Work in San Clemente We painted a rural school and put grass. Responsible in charge: Nicolás Quezada Lezana.	cde!
Winter 2017	Volunteer Work in Colina Sustainable garden construction at Font School.	cde!

Responsible in charge: Francisca Guzmán Aliste.

2017-2018 Secretary cde!

2017 Sustainability Representative DIM