

Rodrigo Andre Zelada Mancini

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

- August 09, 1994
- Estación Central, Santiago, Chile.
- +569 37180729
- https://rodrigozelada.github.io
- @ rodrigo.zelada@ug.uchile.cl

Social Network —



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



github.com/RodrigoZelada

Skills -

Enthusiast



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.

January 2017 Professional Internship I DAS (De

DAS (Department of Astronomy)

Treatment of images via interferometry. Supervision: PhD. Simón

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

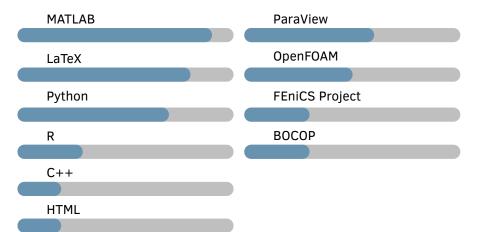
January 2018 Professional Internship II

DIM (Department of Mathematics Engineering)

Computational algorithm for the Legendre-Fenchel conjugate. Supervision: PhD. Abderrahim Hantoute. Classification: 7.0/7.0

January 2019 **Professional Internship III** CMM (Center for Mathematical Modeling) 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.

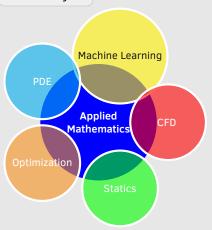
Interests -

Computer Science

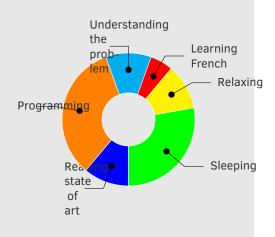
Mathematical Modelling

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 Bav

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

	Spanish (Native)			
X	(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	cde!

Sustainable garden construction at Font School.
Responsible in charge: Francisca Guzmán Aliste.

Secretary cde!

2017 Sustainability Representative DIM

2017-2018