

RODRIGO ZELADA

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EDUCATION

University of Chile	2013 - Present
Mathematical Engineering.	
Master in Engineering Sciences, minor Applied Mathematics	2019 - Present

PROJECTS

Mathematical Model of the Dynamics of Red Tide	March 2019 - Present
My current project is work in my thesis, under the supervision of Carlos Conca and Jorge San Martín. I am designing and analyzing predictive mathematical models to understand the environmentally very damaging phenomena of the red tide in the South of Chile.	

TECHNICAL STRENGTHS

Programming Languages	MATLAB (advanced), Python (intermediate), R (beginner).
Finite Element Software	FEniCS Project (intermediate), FreeFem++ (beginner)
Optimal Control Solver	BOCOP
Typesetting System	LaTeX

WORK EXPERIENCE

Professional Internship I	June 2016
Treatment of images via interferometry. I worked with the astronomer Simón Cassasus (DAS).	
Professional Internship II	June 2017
Computational algorithm for the Legendre-Fenchel conjugate. The teacher in charge was Abderrahim Hantoute.	
Professional Internship III	June 2018
Study of Stokes and Navier-Stokes, validation of numerical algorithms. Under the supervision of Raúl Gormaz of the CMM (Center of Mathematical Modeling).	

TEACHING

MA2002 - Advanced calculus	Fall 2016
Test grader	
MA2002 - Advanced calculus	Spring 2016
Test grader	
MA5602 - Non stationnary modeling	Fall 2019
Teacher's assistant	

ACADEMIC ACHIEVEMENTS

Prominent student in the mathematics department. 2018

EXTRA-CIRRICULAR

Cde! (Student Development Center) 2015-2018

I participated in a social group at University called Cde!, which consisted of doing volunteer work during the holidays and visiting regularly Sename's children.

- Volunteer work in the city of San Clemente: we painted a rural school and put grass. Summer 2015
Responsible in charge: Nicolás Quezada Lezana.

- Volunteer work in the commune of Colina: sustainable garden construction at Fontt School. Winter 2017
Responsible in charge: Francisca Guzmán Aliste.

- Secretary 2017-2 / 2018-1

Sustainability Representative 2017

I was Sustainability Representative of my career the year 2017.