

# REIDMEN ARÓSTICA

## Mathematical Engineer

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reidmen.github.io/PublicMistakes/    github.com/Reidmen/    linkedin.com/in/reidmen-arostica/



## EXPERIENCE

### Research & Thesis

#### Universidad de Chile

March 2018 - April 2019    Santiago, Chile

- Employer: PhD.Axel Osses. Classification: Proactive 7.0/7.0
- It was generated a numerical model that describes *Lamb*-wave behavior from a novel Ultrasonic Method.
  - Realistic bone simulations from  $\mu$ -CT images are done in NLHPC facilities.
  - Novel extensions to viscoelastic mechanical behavior are proposed connected to experimental results.

### Research Assistant

#### Pontificia Universidad Católica de Chile

December 2017 - January 2018    Santiago, Chile

- Employer: PhD. Daniel Hurtado. Classification: Independent 7.0/7.0
- There are studied methods to numerically simulate bone tissue under stress, using state-of-art library FEniCS.

### Research Assistant

#### Center of Mathematical Modelling (CMM), Chile

December 2016 - January 2017    Santiago, Chile

- Employer: PhD. Felipe Tobar. Classification: Productive at work. 6.0/7.0
- There is proposed an implementation of *Reinforcement Learning* to predict financial series under the Keras library.

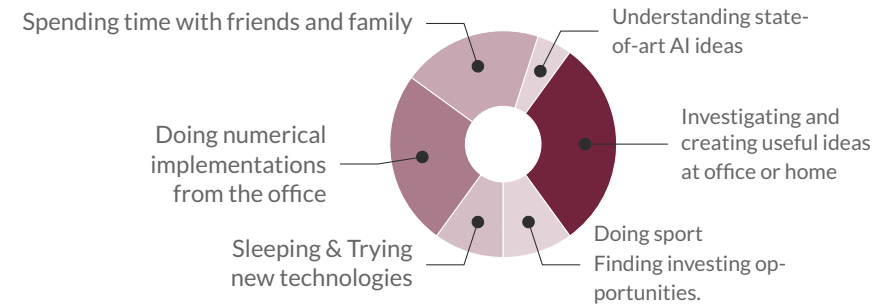
### Laboratory Assistant

#### Universidad de Chile

January 2016 - February 2016    Santiago, Chile

- Employer: PhD. Rodrigo Assar. Classification: Productive, Enthusiast 7.0/7.0
- It is investigated state-of-art methods in bio-statistic for genetic counters of proteins.

## A DAY OF MY LIFE



## EDUCATION

### M.Sc.Eng. in Applied Mathematics

#### Universidad de Chile

March 2017 - April 2019  
Graduated with the highest distinction (6.9/7.0)

### Engineering Mathematics

#### Universidad de Chile

March 2013 - March 2018  
Graduated with the highest distinction (7.0/7.0)

## MOST PROUD OF

- Impact-driven Person**  
Expect my work to have profound impact on society.
- Curiosity-driven Person**  
Firsts adopters of new technologies during with interdisciplinary working teams.
- Persistence & Loyalty**  
Despite hard moments, I showed willingness to advance progress during the Research Thesis/Project

## STRENGTHS & SKILLS

- Hard-working (18/24)
- Persuasive
- Motivator
- Result-driven
- Persistent
- Curiosity-driven
- Mathematical Modelling
- Inverse Problems
- Numerical Analysis
- Deep Learning (AI)
- High Performance Computing

Python, MATLAB,  $\LaTeX$ , Bash  
HTML, Offices Suites, C++, Docker

## LANGUAGES

Spanish (Native)  
English (C1)  
French (A1)

## WORK

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### Consultant

#### Management Solutions

📅 June - July 2019

📍 Santiago, Chile

- Consultant of data analytics at a finance oriented firm, the main project was related to credit scoring.

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### Hands-on Instructor

#### Universidad de Chile

📅 15-17 January 2019

📍 Santiago, Chile

- Instructor at Conference: Inverse Problem Methods, Applications and Synergies (IPMAS)

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### Assistant & Advisor

#### Universidad de Chile

📅 August 2018 – December 2018

📍 Santiago, Chile

- Assistant at the Course: Inverse Problems and Control on Partial Differential Equations.
- Advisor at Calculus Course Project: *Taller dos Relojes*.

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### Assistant Professor

#### Universidad de Chile

📅 March 2018 – June 2018

📍 Santiago, Chile

- Assistant at the Course: Numerical Methods in Partial Diferential Equations.

## OTHERS

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### Scholarship

#### Universidad Adolfo-Ibañez

📅 December 2017

📍 Viña del Mar, Chile

- Pre-doctoral School, Economic-based Courses and Facility visits.

### Prizes

#### Universidad de Chile

📍 Santiago, Chile

- (2019) *Grant Master de d'excellence* from the Paris-Dauphine University (*Université PSL*).
- (2017, 2018) Highlighted Student from the Mathematics Department, FCFM.
- (2013) Best Student at High-School, (6.8/7.0).

## REFEREES

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### Prof. Dr. Axel Osses

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### Prof. Dr. Jean-Gabriel Minonzio

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### Prof. Dr. Carlos Conca

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