REIDMEN ARÓSTICA

Mathematical Engineer & Tech Fanatic

@ reidmen@dim.uchile.cl +56-9-94538495 1612, Agustinas, ZIP 8340744 Santiago, Chile
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 μ-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

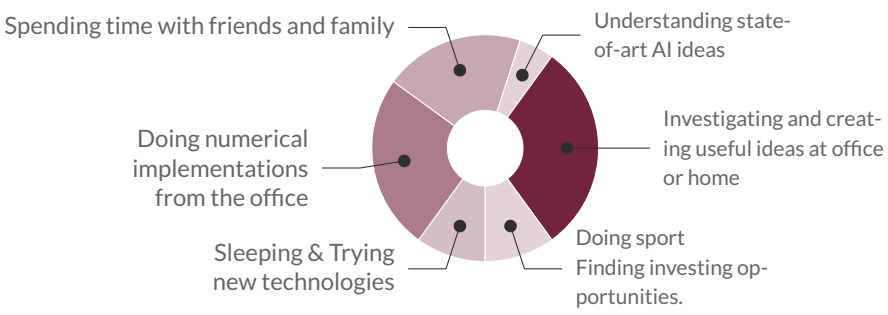
Universidad de Chile

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.S. in Applied Mathematics

Universidad de Chile

March 2017 – April 2019

Graduated with maximum distinction (6.9/7.0)

B.Sc.Eng in Mathematics

Universidad de Chile

March 2013 – March 2018

Graduated with maximum 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++

LANGUAGES

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

UNIVERSITY WORK

Hands-on Instructor

Universidad de Chile

15-17 January 2019 — Santiago, Chile

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

Auxiliary & 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*.

Auxiliary Professor

Universidad de Chile

March 2018 – June 2018 — Santiago, Chile

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

OTHERS

Scholarship

Universidad *Adolfo-Ibañes*

December 2017 — Viña del Mar, Chile

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

Prizes

Universidad de Chile

Santiago, Chile

- (2017, 2018) Highlighted Student from the Mathematics Department, FCFM.
- (2013) Best Student at High-School, (6.8/7.0).

REFEREES

Prof. Dr. Axel Osses
@ aosses *at* dim.chile.cl
Phone: +56 2 2978 4994
Office: 513

Prof. Dr. Jean-Gabriel Minonizio
@ jean-gabriel.minonzio *at* uv.cl
Phone: +56 2260 3738

Prof. Dr. Carlos Conca
@ cconca *at* dim.uchile.cl
Phone: +56 2 2978 4459
Office: 704