

# Alonso Andrés Letelier Vera

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## Education

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- **Universidad de Chile**  
*MsEng. Applied Mathematics.* 2021–Present
- **Universidad de Chile**  
*BE. Mathematical Engineering.* 2014–2021
- **University of Alabama**  
*Intensive English Program Level 4* January 2016 – February 2016

## Work Experience

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- **Entel Ocean (EO)**  
*Data Scientist* March 2020–Present  
Data Scientist at Elements, a data streaming platform developed by EO to improve water management in agriculture, mining and food industries. My responsibilities range from proposing new features regarding data analytics motivated by business rules and be part of the customer validation process, to state feasibility of the new feature and develop/deploy the expected result via API. Our main features are time series based and several data processing techniques have been used, such as clustering, dimensionality reduction, feature generation and statistics in general. To accomplish this and guarantee maintainability, I use clean architecture principles to structure the API with Python as its base language.
- **Entel Ocean (EO)**  
*Intern and Trainee* January–December 2020  
Development of unsupervised ML algorithms for early detection of wildfires. The framework was anomaly detection in time series and required a streaming data pipeline for the IoT devices located in a test forest.
- **Fundación Ciencia & Vida**  
*Intern* January–February 2019  
Developed a replica in Python of the paper *The functional diversity of retinal ganglion cells in the mouse, Baden et. al.* Required the analysis of mouse retinal ganglion cells data to perform unsupervised clustering and then analyse results to later perform the same procedure for different species.
- **Ilustre Municipalidad de La Pintana**  
*Intern* September–December 2018  
Evaluation and descriptive analysis of Social Services queues in La Pintana, Santiago. The aim was to propose improvements based on data to decrease waiting times and encourage people to attend.

- **OpenLab, FCFM**  
*Innovation Project DIVALE* 2015  
 Contestant at *OpenBeauchef*, organized by OpenLab. Awarded with a honorable mention and the prize *mérito innovador* with DIVALE, which was a car crash detection device.

## Technical Skills

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- **Programming languages:** Python, Matlab, R, AMPL, TeX  
 Basics in Java.
- **Others:** Office (Excel, PowerPoint, Word, etc.). Algorithm deployment and development. Thingsboard. Use of AWS servers. Use of PostgreSQL and Cassandra DBs.

## Languages

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- **Español:** Native.
- **English:** C2 (IELTS Academic 8.5).

## Distinctions

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- **Outstanding Student**  
*FCFM, Universidad de Chile* 2019
- **Prize Mérito Innovador, Open Beauchef**  
*OpenLab - FCFM, Universidad de Chile* 2015

## Extracurricular Activities

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- **TECHO - Chile**  
*Volunteer* 2014–2019
  - General Coordinator Villa La Primavera, La Pintana: working with local communities to improve their infrastructure via subsidised funds and community services training courses.
  - *Youth Summer Camp 2018* General Coordinator: In charge of coordinating and planing the different projects to perform during the summer camp and its volunteers.
- Sport climber.