

# ALFONSO TOBAR

## CIVIL ENGINEER / DATA SCIENTIST

Alfonso is a Civil Engineer with strong Technical and Mathematical skills that have worked first at Hydraulics to then move into the Data Science Field. In his Data Science Career Alfonso has experience managing big Volumes of Data (50 - 100M of records), developing Business Intelligence Tools such as Dashboards, Visualizations and Interactive Reports, developing Machine Learning Projects and communicating Insights to Head Leaders in the Bank Industry.

Alfonso's skills cover high proficiency in R, proactivity, self-driven and constant learning attitude, high quality teaching and communication skills plus his commitment to deliver the best work quality in order to help stakeholders to achieve their Business goals.

## EDUCATION

- 2013** • **Federico Santa María Technical University**  
Civil Engineering. 📍 Valparaiso, Chile  
  
Thesis: Applying Convolutional Networks to Finite Elements Methods for Structure Reliability Analysis.
- 2015** • **Data Scientist Program by SENCE**  
Data Scientist Graduate. 📍 Viña del Mar, Chile
- 2019** • **Valparaiso Pontifical Catholic University**  
Predictive Modeling and Machine Learning Diploma. 📍 Viña del Mar, Chile

## PROFESSIONAL EXPERIENCE

- 2015** | **2019** • **Senior Business Analyst**  
Data Analyst for the 3rd Major Bank in the US. 📍 Evalúeserve Chile
  - Development and Automation of Compliance Reports.
  - Data Process Automation.
  - Development of Calculation Engines.
  - Design and Maintenance of Dashboards.
- 2014** | **2015** • **Production Analyst Elqui**  
Analyst for Drinking Water Services. 📍 Aguas del Valle
  - Production Metrics Reporting.
  - In charge of Decision-Making process to tackle drought issues.
- 2013** • **Project Engineer**  
Project Engineer for Rural Drinking Water Projects. 📍 INVAR S.A
  - Piping Network Design.
  - Tank and Pumping System Design.
  - Water Demand Estimation.
  - Blueprint Generation.



## CONTACT INFO

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🌐 "alfonso-tobar-arancibia-788b0868"  
👤 [github.com/Rcubes](https://github.com/Rcubes)  
📞 +56 9 95551157

## SKILLS

🔧 Advanced R Developer:

📦 Package Experience:



📊 Advanced Tableau Developer  
🗄 Advanced SQL User  
📄 VBA Intermediate Level  
🌐 Basic HTML, CSS, JS

## AWARDS

👤 Two times Best DSP Trainer  
⚙ Employee Performance Award



## TEACHING EXPERIENCE

2016  
|  
2019

### Data Scientist Program

R Module Lead.

📍 Evaluéserves Chile

- In charge of Developing Program Syllabus.
- Teaching the following classes:

- Intro to R.
- Intro to Tidyverse.
- Data Wrangling.

- Data Reporting in R.
- Advance R Programming.
- Modeling and Machine Learning.

2017  
|  
2019

### Data Scientist Program

Tableau Instructor.

📍 Evaluéserves Chile

- Intro to Tableau.
- Basic Charts.
- Non Standard Charts.

- LOD.
- Tableau Advanced Tricks.

2018

### Data Scientist Program

SQL Instructor.

📍 Evaluéserves Chile

- Intro to SQL.
- Basic Queries.

- Aggregate Functions.
- Sub - Queries.

2006  
|  
2013

### Federico Santa María Technical University

Teaching Assistant.

📍 Valparaíso, Chile

- Calculus I.
- Calculus II.
- Calculus IV.



## RESEARCH EXPERIENCE

2016  
|  
2019

### Data Scientist Program

Research Project Assistant.

📍 Evaluéserves Chile

- Assisting DSP Students during their Research Projects.
- Topics Covered:

- Sentiment Analysis applied to Song Lyrics.
- Machine Learning applied to Fraud Detection.

- Topic Modeling applied to President Speeches.
- Machine Learning Applied to Sentiment Analysis.

This resume was made with the R package **pagedown**.

Last updated on 2019-10-02.