DANIEL IGNACIO IRIARTE ARELLANO

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EXPERIENCE

Data Analyst   May 2022 - December 2022

Optimization of waste-removal truck routes in Vitacura to reduce time and fuel costs using a data-based clustering and TSP approach.

Start Up: Tripyeah   April 2021 - February 2022
Optimization Engineer

Development and implementation of algorithms. Research for business development using data analysis. Construction of key indicators. Process automatization.

iDux   January 2021 - February 2021
Engineering Intern (Analytics Team)

Design, model and program solutions to solve a variety of business problematics using data analysis.

Instituto de Sistemas Complejos de Ingeniería   Septembre 2020 - January 2021
Project Assistant

Automatization of vehicle routing for the home care unit at Hospital Sótero del Río.

EDUCATION

Masters in Operations Management   2021 - Present
Thesist and Research Assistant

Thesis subject: Study, analysis and design of bayesian inference methods for vaccines clinical studies in Chile.

Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile   2020 - Present
Masters in Operations Management.

KTH Royal Institute of Technology - Stockholm, Sweden   Spring 2020
Exchange Student

International working experience in multicultural work groups.
Project: design of a sustainable citiy using renewable energy based on indian city energy requirement data.

Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile   2016 - Present
Industrial Civil Engineering.

Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile   2016 - 2019
Bachelors in Industrial Engineering.

TECHINCAL KNOWLEDGE

Software

GitHub, SQL, HTML (basic), CSS (basic), Gurobi and other solvers, Latex, MS Office.

Python: Vast experience in diverse libraries of data analysis and data visualization such as: Pandas, Scikit-Learn, Numpy, Seaborn, Matplotlib, cuML, TensorFlow, pyTorch.

Languages

Spanish: Native **English**: Advanced (TOEFL ITP certification)

ACADEMIC EXPERIENCE

Teacher Assistant
- **Teacher Assistant: Mathematical Modeling and Optimization**
Spring 2019, Spring 2020, Fall 2021, Fall 2022
- **Teacher Assistant: Operations Research**
Spring 2019, Fall 2021, Fall 2022
- **Teacher Assistant: Introduction to Classical Physics**
Fall 2018, Fall 2019

SCHOLARSHIPS

ANID   2022
National Masters Scholarship
Awarded for outstanding academic achievement, teaching experience and research trajectory.

Internal Scholarship, Masters in Operations Management - Universidad de Chile   2022
Academic excellence scholarship
Awarded for outstanding academic achievement.

DISTINCTIONS

Finalist - Itaú Bank Data Science Challenge   Spring 2021
Competition objective: estimate the amount of runaway clients for the next month
based on internal client data.

Academic Excellence Award   2016, 2017, 2018, 2019, 2021
Facultad de Ciencias Físicas y Matemáticas de la Universidad de Chile.

EXTRACURRICULAR ACTIVITIES

University Swimming Team   2021 - Present
Swimming team - Universidad de Chile.

Teaching Commitee - CEIN   Spring 2020
Student Center - Industrial Engineering - U. de Chile.

Impulso Project   Fall 2018
Project leader. Project looking to reduce revicidism using social skills workshops
in a penitentiary of southern Santiago.

Scout Manqueman   2010 - 2015
Scout Manqueman group member for 6 years. Learning experience in teamwork and leadership.