EdisonFlorez

Data Scientist | Business Analyst | Computational Physicist

phone: 020 4143 7112 edisonffh@gmail.com • Auckland, New Zealand

Technical Skills: Python • C/C++ • Fortran • Data Base (SQL/NoSQL) • Git • Docker • AWS

• Power BI • Tableau • Linux • Bash • OpenMP

HPC • Testing/TDD • CI/CD • LATEX

Profile: As a data scientist with a profound background in statistics, linear algebra, quantum mechanics, and mathematics, I bring over eight years of experience, having served as a data scientist, business analyst, researcher, developer, and team leader. My passion lies in extracting fundamental insights from data, thinking critically, and understanding the rationale behind each

Key **Skills:** Complex problem solving • Critical thinking • Storytelling • Creativity • Leadership • Teamwork • Project Management Communication ● Time management

task. With my ability to learn quickly and motivation to take on challenges, I have excelled as a team player and individual contributor, taking calculated risks and showing initiative. In my spare time, I enjoy intellectual pursuits like drawing and writing about science fiction. I am a beer and cycling enthusiast, although not all simultaneously.

Professional Experience

▶ Data Scientist

Aug.2021 - Aug 2023

HelicoBio [helico.bio], New Zealand

COMPUTATIONAL PROTEIN DESIGNER: Leveraging in-depth knowledge of biophysics and protein design, I created and validated scalable pipelines to advance plant biology research. My role involves collecting and preparing data, finding insights, and creating easy-to-understand visuals. I contributed to all phases of the software development lifecycle including the development, testing, and deployment of new functionalities using Python and C++.

► Freelancer Editor

Enago [enago.com], Remote MDPI [mdpi.com], Remote

Since Apr.2023 Apr.2018 - Dec.2018

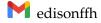
Aug.2018 - Mar.2020

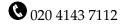
COPY & SUBSTANTIVE EDITING: I perform Copy Editing, refining grammar and scientific terminology; and Substantive Editing, enhancing manuscript structure and content, clarifying ambiguous text, and verifying citation relevance. This helps authors aiming for high-impact journals and those requiring extensive language assistance.

► Teaching/Lab Assistant and Demonstrator

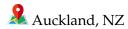
Massey University [massey.ac.nz], New Zealand

PHYSICS: Instruct and advise students in workshops, with an emphasis on intricate topics such as advanced mechanics, thermodynamics, fluid dynamics, magnetic field theory, electromagnetism, and circuit analysis. My role is instrumental in enhancing students' understanding of these complex physical concepts and principles.









▶ Data Scientist

Aug.2016 - Mar.2018

EY-ifb [ey.com], Colombia.

SAP-IMPLEMENTATION AND BANK-ANALYZER: Develop tailored solutions based on thorough business and technical analyses, primarily within SAP for Analytical Banking and Business Intelligence. I specialize in crafting complex models and implementing them, addressing economic problems through customized solutions. Additionally, I developed and implemented mathematical models related to financial inquiries, providing detail-oriented and pragmatic solutions.

▶ Graduate Teaching Assistant

Sept.2015 - Aug.2016

University of Antioquia [udea.edu.co], Colombia.

QUANTUM & COMPUTATIONAL CHEMISTRY: Guide advanced college students through the intricate domain of Quantum Chemistry. I ensure students achieve proficiency in the quantum language, comprehend relevant methods, and grasp key concepts. Furthermore, I facilitate their understanding of the interpretation and application of these principles in chemically interesting systems.

Open-Source Contributions

- ▶ Parallel Tempering Monte Carlo (PTMC): This project introduces an advanced Fortran (2003) code that uses the Parallel Tempering Monte Carlo (PTMC) method for an accurate and efficient analysis of phase transitions in atomic and molecular clusters. Code available on github.com/e-florez/PTMC
- ▶ Atomic and Molecular Cluster Energy Surface Sampler (AMCESS): An open-source Python package that automates the exploration of the Potential Energy Surface (PES) for atomic and molecular clusters. Code available on github.com/e-florez/amcess

Academic Background

▶ Ph.D. in Computational Physics, Massey University, New Zealand

July 2023

▶ M.Sc. in Computational Chemistry, University of Antioquia, Colombia

December 2014

▶ **B.Sc. in Chemistry,** University of Antioquia, Colombia

July 2012

Fellowships and Awards

- ► Massey University Doctoral Scholarship
- ▶ Master in Science Honours and research work with meritorious award.

References available upon request

Yours sincerely,

Edison Florez

edisonffh@gmail.com



