

# EdisonFlores Ph.D., M.Sc.

Data Scientist | Business Analyst |  
Computational Physicist | Algorithm Developer

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**Technical Skills:** Python • C++ • Fortran  
• Data Base (SQL/NoSQL) • Visualization  
• Linux • Bash • OpenMP • HPC • Git •  
Testing/TDD • CI/CD • Docker • L<sup>A</sup>T<sub>E</sub>X

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

**Profile:** As a data scientist, I bring over eight years of experience, having served as a researcher, algorithm developer, business analyst, and team leader. My passion lies in extracting fundamental insights from data, thinking critically, and understanding the rationale behind each 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.

## Academic Background

- **Doctor of Philosophy** July 2023  
Computational Physics, Massey University, New Zealand
- **Master of Science** December 2014  
Computational Chemistry, University of Antioquia, Colombia
- **Bachelor of Science** July 2012  
Chemistry, University of Antioquia, Colombia

## Fellowships and Awards

- **PhD in Physics:** Massey University Doctoral Scholarship (full-time) 2018, 2019, 2020
- **MSc in Chemistry:** Honours and research work with meritorious award.

## Professional Experience

- **Freelancer Editor**  
Enago [[enago.com](https://enago.com)], Remote Since Apr.2023  
MDPI [[mdpi.com](https://mdpi.com)], Remote Apr.2018 - Dec.2018

**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.

- **Demonstrator** Aug.2018 - Mar.2020

Massey University [[massey.ac.nz](https://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](https://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](https://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.

## 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](https://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. [github.com/e-florez/amcess](https://github.com/e-florez/amcess)

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Yours sincerely,

**Edison Florez**

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Auckland, New Zealand.



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