Edison Flórez, Ph.D.

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Data Scientist | Business Analyst | Computational Physicist

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Profile

8 + years' experience in statistical analysis, predictive modelling, data processing and mining algorithms across biotech and finance. I translate complex business requirements into scalable, data-driven solutions.

Interests

Scientific computing · Data engineering · Machine learning for life-sciences · Data-driven storytelling

Technical skills

Python · C/C++ · Fortran · SQL · MongoDB · Git · Docker · AWS · Power BI · Excel · Linux · Bash

General skills

Storytelling · Leadership · Project management · Data visualisation · Agile · Data preparation · DB design · Coaching & mentoring

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Professional experience

::: if (job == "business" or job == "default") ### Sales Executive & Business Analyst
Cordis, New Zealand | Sep 2023 – Present
- Managed key corporate accounts, nurturing relationships through site inspections and on-site hosting.
- Queried Delphi CRM, Oracle PMS & GDS databases to surface booking-trend insights.
- Built Python ETL pipelines and interactive dashboards → **35 %** reduction in manual reporting time.

Achievement: beat monthly sales target, driving an **8 %** rise in corporate-segment revenue. :::

::: if (job == "data-science" or job == "default") ### Data Scientist
HelicoBio, New Zealand | Aug 2021 – Aug 2023
- Designed and validated scalable data pipelines (Python & C++) to accelerate plant-biology research.
- Collaborated cross-functionally to deploy new functionality end-to-end.

Achievement: reduced wet-lab workflows by **20 %**, improving protein-design throughput. :::

::: if (job == "editorial" or job == "default") ### Freelance Scientific Editor
Enago (Apr 2023 – Present) · *MDPI* (Apr 2018 – Dec 2018)
Copy- & substantive-editing for STEM manuscripts; guidance on journal style compliance.

Achievement: boosted desk-acceptance rates by **30 %** in high-impact journals. :::

::: if (job == "academia" or job == "default") ### Lab Assistant & Demonstrator
Massey University, NZ | Aug 2018 – Mar 2020
Taught mechanics, thermodynamics, E&M and circuits; authored SOPs and automated reports with Jupyter/Pandas.
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::: if (job == "consulting" or job == "default") ### Data Scientist
EY, Colombia | Aug 2016 – Mar 2018
Developed SAP Analytical Banking/BI models; built Python encryption module that halved training-prep time.
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Graduate Teaching Assistant

University of Antioquia, CO | Sep 2015 – Aug 2016
Created "Computational Quantum Mechanics with Python" module adopted in Quantum Chemistry curriculum.

Open-source contributions

PTMC – Parallel Tempering Monte Carlo code (Fortran) • Lead developer
https://github.com/e-florez/PTMC

AMCESS – Potential-energy-surface explorer (Python) • Architect
https://github.com/e-florez/amcess

::: if (job == "academia" or job == "default") ## Selected publications 1. *The Journal of Physical Chemistry A* **127** (2023) 8032–8049. DOI 10.1021/acs.jpca.3c02927 – front-cover article.
2. *J. Chem. Phys.* **157** (2022) 064304. DOI 10.1063/5.0097642
3. *Int. J. Quantum Chem.* **121** (2021) e26571.
4. Additional list available on request. :::

Education

- Ph.D. Computational Physics – Massey University, NZ (Jul 2023)

- M.Sc. Computational Chemistry – University of Antioquia, CO (Dec 2014)

- B.Sc. Chemistry – University of Antioquia, CO (Jul 2012)

Fellowships & awards

Massey University Doctoral Scholarship · M.Sc. Honours (meritorious research)

Supervision

M.Sc. thesis (Feb 2020) – "Microsolvation of Heavy Halides"
B.Sc. thesis (Dec 2017) – "Relativistic & Correlation Effects on NMR of MX Diatomics"

References

Available upon request

Yours sincerely
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Build & automation (maintainer notes)

The following steps implement the **Pandoc Markdown-first workflow** that generates synced PDFs and this README.

1 Edit

Update only this file (`cv.md`). Use fenced *conditional* blocks (`::: if …`) to control which sections appear in job-specific variants.

2 Build locally

"'bash pandoc cv.md -o Edison_Florez_CV.pdf # default pandoc cv.md -M job=data-science -o Edison_Florez_DS.pdf # data-science pandoc cv.md -M job=academia -o Edison_Florez_AC.pdf # academia