Yaidel Toledo González

Scientific researcher with proven experience in Computational Simulations, coding, and much more

Email	yaidel.ovn32@aleeas.com
Instutution	IPREM, University of Pau and the Adour Countries, France
Web Page	See more at yaidel.poview.org/curriculum-vitae

Experience

Researcher, Post-doc 2023 – 2024

📍 *IPREM, University of Pau and the Adour Countries, France*

💼 Performed computational simulations which provided insights into processes at the atomic scale in Ru based catalysts to storage H_2 and CO_2 into formic acid, and then release them.

Researcher, Ph.D. 2019 – 2022

📍 *IPREM, University of Pau and the Adour Countries, France*

💼 Performed computational simulations, coding with Bash and Python, data analysis, and research, to identify the reaction mechanisms defining the catalytic properties of urea-based foldamers to achieve challenging C-C bond forming reactions.

Researcher, student 2018 – 2019

📍 *InsTEC, Univerity of Havana, Cuba*

💼 Build from scratch a Molecular Dynamics code in FORTRAN to simulate the Matrix Isolation deposition process to trap small molecule into rare gas matrices.

Education

Ph.D. degree in Physical-Chemistry 2022

📍 *IPREM, University of Pau and the Adour Countries, France*

❝ "Molecular design for catalytic activities of helical chiral oligoureas." Under the supervision of Philippe Carbonniere, and Jean-Marc Sotiropoulos.

Engineer in Nuclear and Energetic Facilities 2019

📍 *InsTEC, Univerity of Havana, Cuba*

❝ "Matrix isolation of $W(CO)_6$: understanding at the atomic scale of the materials design." *Cum Laude*. Under the supervision of Germán Rojas Lorenzo.

Skills

- `</>` FORTRAN · Python · Elisp · C · C++ · HTML/CSS · LaTeX
- ⚙ SciPy · Numpy · Pandas · Matplotlib
- `>_` Linux · Bash · Emacs · Inkscape · GIMP · WordPress · LibreOffice · Zotero
- 🖥 Gaussian · deMon2K · MultiWFN · ANSYS · DFT · Molecular Dynamics · HPC

Grants and awards

Grant 1M CPU/hours · 2023
Granted by GENCI, at TGCC

Grant 900k CPU/hours · 2021
Granted by GENCI, at TGCC

First Place Award · 2019
Theoretical Physics commission price "InSTEC 2018-2019"

Third Place Award · 2016
ACM-ICPC InsTEC Finals

Languages

Spanish	Native	●●●●●
English	C1	●●●●○
French	B2	●●●○○

Other interests

Writing · Photography · Web design · Baseball · Calisthenics · Gardening