ABBREVIATED CURRICULUM VITAE

Part A. PERSONAL INFORMATION

Name and Surnames	Diego Ontiveros Cruz				
DNI/NIE/passport	25369712E				
e-mail	diegonti.doc@gmail.com		Phone		+34 644311635
Researcher identification IDs		Researcher ID		IST-1983-2023	
		OrcID		0009-0008-0307-5645	

Part B. SUMMARY

I hold a degree in Chemistry from the University of Barcelona, and I further expanded my knowledge by completing a master's degree in Computational Modeling. My research experience primarily focuses on projects involving the computational study of materials and their application as photocatalysts. I possess extensive programming skills, enabling me to optimize and automate calculation processes and result analysis through Python scripts. I am a dedicated individual, eager to learn, collaborate, and continually improve. I am organized, ambitious, and capable of working both independently and as part of a team. My passion lies in computational chemistry, which I aim to pursue in the coming years, as well as in the field of scientific outreach.

Part C. ACADEMIC INFORMATION AND MERITS

- ♦ Studies and academic degrees
 - Bachelor's Degree in Chemistry. University of Barcelona, 2018–2022. Grade: 8.4/10.0
 - Master's Degree in Atomistic and Multiscale Computational Modelling. University of Barcelona, 2022–2023. Grade: 9.3/10.0
- ♦ Research activity, including grants, scholarships and research contracts and participation in projects and agreements
 - **Collaboration Fellowship** with the Material Science and Physical Chemistry Department. November 2022 June 2023.
 - Càtedra UB Fellowship Fundación Privada José Luis Massó Grant for enrollment in university masters at the Faculty of Chemistry of the UB. October 2022.
- Publications (articles, book chapters and others)
 - Bandgap Engineering of MXene Compounds for Water Splitting

 <u>D. Ontiveros</u>, F. Viñes, C. Sousa. *J. Mater. Chem. A*, 2023, **11**, 13754–13764. DOI: 10.1039/D3TA01933K
 - Bandgap Engineering on MXene Compounds by Structure, Composition, and Surface Termination
 - D. Ontiveros. Dipòsit Digital UB, TFG. http://hdl.handle.net/2445/189371
- Participation in congresses and conferences
 - MXens com a Fotocatalitzadors del Trencament de l'Aigua Poster
 Masterquímica XVIII, Committee for Linguistic Dinamization of the Faculty of Chemistry, UB, 2023.

Computational Study of MXenes as Photocatalytic Materials – Flash Oral Presentation
 + Poster

8th International Conference on Semiconductor Photochemistry (SP8), Strasbourg, 2023.

- MXenes as Photocatalytic Materials for Water Splitting – Poster IQTC/QTMC Meeting 2023 (Link), UB, 2023.

♦ Participation in workshops or courses

- IQTC Course Computational Modelling: from Molecules to Materials, Barcelona, 2022.
- IQTC Course Molecular Modelling: biomolecules and drug design, Barcelona, 2023.
- Quantum Computer Masterclass, Quantum Spain & BSC, Barcelona, 2023.

♦ Science communication activities

- My **networks** where I update my activity as a research scientist (ResearchGate, LinkedIn, Google Scholar, ORCiD): <u>linktr.ee/diegonti</u>
- **Scientific monitor** in workshops for children between 7 and 14 years old at Smart Barcelona. From April 2023.
- Educational support teacher in the Exit program. 2018–2020 and 2022.
- MXenes as Photocatalysts for Water Splitting. A Computational Study <u>Poster</u> III Prize for Sustainability and Human Rights Posters, UB, 2022.
- Finalist in the 10th Young Research Exhibition of Barcelona, 2018. Consorci d'Educació de Barcelona.

♦ Other relevant academic and/or scientific merits, including awards, and recognitions

- **6 Distinctions in the Chemistry Degree**: Physics I (9.6), Basic Inorganic Lab (9.2), Organic Chemistry I (9.3), Organic Chemistry III (9.8), Structural and Spectroscopic Organic Chemistry (9.5), Final Degree Thesis (9.9).
- 5 Distinctions in the Atomistic and Multiscale Computational Modelling Master's Degree:
 Statistical Mechanics (9.5), Molecular Modelling (9.0), Electronic Structure (10), Electronic
- **B2 English** Level certified by Cambridge Assessment English (**Grade A** Score 181).
- **Awarded** the **best Flash Oral Communication prize** at 8th International Conference on Semiconductor Photochemistry (SP8), Strasbourg, France. 2023.
- Spanish and Catalan as native languages.
- Good knowledge of **Python** and programming tools. github.com/diegonti

Structure in Solids (9.5), Nanomaterials and Surfaces Modelling (9.6).