BSc. **Ubeiden Cifuentes Samboni**

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Biological Chemistry Department Ranwel Caputto
Faculty of Chemistry
Universidad Nacional de Córdoba
CIQUIBIC-CONICET, Córdoba Argentina

🎓 Academic Studies

Degree

2018–	PhD in Chemistry Universidad Nacional de Córdoba, Argentina
2011–2017	BSc. Chemistry Universidad del Quindío, Colombia

Diploma

03.2023– 12.2023	Diploma in Data Science: Supervised Learning and its Applications FAMAF, Universidad Nacional de Córdoba, Argentina

📖 Teaching Experience

Undergraduate

08.2019–	Assistant Teacher: Biophysics and Biological Chemistry Faculty of Chemistry, Universidad Nacional de Córdoba, Argentina

High Shool

10.2017– 11.2017	Science Teacher Fundación Caicedo González Riopaila Castilla, La Paila - Valle del Cauca, Colombia
06.2017– 11.2017	Science Teacher Instituto Técnico Diversificado Grajales, La Unión - Valle del Cauca, Colombia

📘 Complementary Courses

Postgraduate courses

11.2023	Image processing in Python FAMAF, *Universidad Nacional de Córdoba*; Hours: 16
11.2023	Computer vision with Python FAMAF, *Universidad Nacional de Córdoba*; Hours: 16

11.2023	Time series analysis in Python. Introduction
	FAMAF, *Universidad Nacional de Córdoba*; Hours: 16
10.2021	Protein structure and dynamic
	Universidad Nacional de Córdoba; Hours: 40
08.2020–	Introduction to python programming
11.2020	*Universidad Nacional de San Martin*; Hours: 64
06.2020–	The research article in English. How to write in science
07.2020	*Universidad Nacional de Córdoba*; Hours: 20
04.2019	Epistemology for the teaching of natural sciences
	Universidad Nacional de Córdoba; Hours: 40
07.2018	Quantum mechanical methods based on density functional theory - DFT
	Universidad Nacional de Córdoba; Hours: 40
04.2018	Molecular biophysics of proteins
	Universidad Nacional de Córdoba; Hours: 40
07.2015	International Summer Schools: Quantum Chemistry
	PREFALC (Programme Régional France - Amerique Latine Caraïbe); Hours: 80

Other courses

09.2020	Introduction to data science in python
	University of Michigan (Online-Coursera); Hours: 30
02.2016	Nanochemistry
	Universidad del Quindío, Colombia; Hours: 80
04.2015	Introduction to the density functional theory - DFT
	Universidad del Quindío, Colombia; Hours: 20
02.2015–	Advanced spectroscopy methods
06.2015	*Universidad del Quindío, Colombia*; Hours: 80
02.2015–	Computational chemistry
06.2015	*Universidad del Quindío, Colombia*; Hours: 80

🔀 Internships

02.2024–	Department of Physics, King's College London, UK
	Supervisor: Prof. Christian D. Lorenz (chris.lorenz@kcl.ac.uk)
01.2023–	Department of Chemistry, King's College London, UK
05.2023	Supervisor: Prof. Martin Ulmschneider (martin.ulmschneider@kcl.ac.uk)
08.2022–	Instituto Interdisciplinario de las Ciencias, Universidad Nacional de Cuyo, Mendoza, Argentina
09.2022	Supervisor: Dr. Vanesa V. Galassi (vanegalassi@gmail.com)

🏆 Fellowships and Rewards

2023	IUPAB bursaries to attend international conferences: "Physics of Life 2023". International Union for Pure and Applied Biophysics (IUPAB); Harrogate, Yorkshire, UK
2022	IUPAB bursaries to attend international conferences: "L Annual Meeting of the Argentinian Biophysical Society - SAB". International Union for Pure and Applied Biophysics (IUPAB); Rosario, Argentina
2021–2024	End of PhD Fellowships. National Scientific and Technical Research Council - CONICET; Argentina
2020–2023	Scholarship-Loan COLFUTURO. National Colombian Government; Colombia
2018–2021	Beginning PhD Fellowship. National Fund for Science and Technology - FONCyT; Argentina
2017	Meritorious mention for the degree work: "Some Structural, Electronic and Vibrational Properties of Phosphine Diphenyl[2-(2-Pyridylaminomethyl)-Phenyl] Oxide. A Quantum Chemical Study". Facultad de Ciencias Básicas y Tecnologías, Universidad del Quindío; Colombia

☰ Congress and Conferences

11.2023	Congress: *LI Annual Meeting of the Argentinian Biophysical Society - SAB* Attendance; Córdoba, Argentina
11.2023	Meeting: *VII Meeting of Jóvenes Biofísicos: The Young Initiative on Biophysics - YIB* Member of the organizing committee; Córdoba, Argentina
03.2023	Conference: *Physics of Life 2023* Poster; Harrogate, Yorkshire UK
11.2022	Congress: *L Annual Meeting of the Argentinian Biophysical Society - SAB* Attendance; Rosario, Argentina
11.2022	Meeting: *VI Meeting of Jóvenes Biofísicos: The Young Initiative on Biophysics - YIB* Member of the organizing committee; Rosario, Argentina
12.2021	Congress: *IL Annual Meeting of the Argentinian Biophysical Society - SAB (Virtual)* Attendance; Argentina
11.2021	Meeting: *V Meeting of Jóvenes Biofísicos: The Young Initiative on Biophysics - YIB (Virtual)* Member of the organizing committee; Argentina
12.2018	Congress: *XLVII Annual Meeting of the Argentinian Biophysical Society - SAB* Poster; La Plata, Argentina

🔊 Science Communication

10.2020	Social media: *YIB-TALKS (YouTube YIB). IUPAB Sponsorship* Member of the organizing committee; Argentina
07.2019	Science Fair: *International Year of the Periodic Table* Poster; Córdoba, Argentina

05.2019   Science Fair: *Biophysic Week*
           <u>Poster</u>; Córdoba, Argentina

⚗ Skills and Abilities

Methodologies

Protein expression and purification
Bacterial transformation, plasmid extraction, bacteria lysis, production of recombinant proteins and peptides.

Biophysics
Preparation of multilamellar vesicles (MLV's) and unilamellar vesicles (SUV's)

Techniques

Chromatography: ÄKTA FPLC, size exclusion, HPLC, SDS-PAGE electrophoresis

Biophysics: Brewster angle microscopy (BAM), differential scanning calorimetry (DSC), Langmuir monolayers, time-correlated single photon counting (TCSPC): fluorescence spectroscopy, dynamic light scattering (DLS), UV/Vis spectroscopy, ATR-FTIR spectroscopy, silver protein staining

</> Software and Tools Skills

Scripting   Python, Bash, Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, JupyterLab, Google Colab, Conda

Molecular Dynamic Simulation
Gromacs, Visual Molecular Dynamic (VMD), CHARMM-GUI, MDAnalisys, Gaussian 16, NBO 6.0

Others   LaTeX, Linux, Windows OS, GitHub, Fiji, Inkscape, GIMP, Microsoft Office: World, Excel, PowerPoint

🗁 Miscellaneous

Membership Scientific Society

2020–   Jóvenes Biofísicos: The Young Initiative on Biophysics - YIB
2018–   Argentinian Biophysical Society - SAB

Student Project Supervision

Undergraduate Research Assistantship (URA) undergraduates work about 6-8 hours/week for a term on a research project.

06.2023–   Alexander García. *Molecular Dynamic Simulation: Transmembrane Proteins*. URA student.
12.2023   Universidad Nacional de Córdoba, Argentina

Languages

Spanish   English

Hobbies

Sport: Running, Hiking
Art: Wildlife photography
Mix: Travel, personal finance, multimedia editing

📞 References

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Dr. Maricio Galiano	Researcher. Email: mauricio.galiano@unc.edu.ar Phone: +54 9351 802 4397 Faculty of Chemistry, Universidad Nacional de Córdoba Av. Haya de la Torre, 5000; Córdoba Capital-Córdoba, Argentina
MSc. Alberto Sánchez López	Undergraduate supervisor. Email: asanchezl@uniquindio.edu.co Phone: +54 9351 802 8691 Chemistry Department, Facultad de Ciencias Básicas y Tecnologías, Universidad del Quindío, Colombia. Carrera 15 con calle 12 norte; Armenia-Quindío, Colombia