BSc. Ubeiden Cifuentes Samboni

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

Update: March, 2024

Academic Studies

Degree

PhD in Chemistry 2018-

Universidad Nacional de Córdoba, Argentina

2011-2017 BSc. Chemistry

Universidad del Quindío, Colombia

Diploma

Diploma in Data Science: Supervised Learning and its Applications 03.2023-

FAMAF, Universidad Nacional de Córdoba, Argentina 12.2023

Teaching Experience

Undergraduate

Assistant Teacher: Biophysics and Biological Chemistry 08.2019-

Faculty of Chemistry, Universidad Nacional de Córdoba, Argentina

High Shool

10.2017 - Science Teacher

11.2017 Fundación Caicedo González Riopaila Castilla, La Paila - Valle del Cauca, Colombia

06.2017-Science Teacher

11,2017 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, <i>Universidad Nacional de Córdoba</i> ; Hours: 16 |
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| 10.2021 | Protein structure and dynamic <i>Universidad Nacional de Córdoba</i> ; Hours: 40 |
| 08.2020- 11.2020 | Introduction to python programming <i>Universidad Nacional de San Martin</i> ; Hours: 64 |
| 06.2020- 07.2020 | The research article in English. How to write in science Universidad Nacional de Córdoba; Hours: 20 |
| 04.2019 | Epistemology for the teaching of natural sciences <i>Universidad Nacional de Córdoba</i> ; 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 <i>Universidad Nacional de Córdoba</i> ; Hours: 40 |
| 07.2015 | International Summer Schools: Quantum Chemistry PREFALC (Programme Régional France - Amerique Latine Caraíbe); Hours: 80 |

Other courses

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

Internships

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

Tellowships and Rewards

| 2023 | IUPAB bursaries to attend international conferences: "Physics of Life 2023". International |
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| | Union for Pure and Applied Biophysics (IUPAB); Harrogate, Yorkshire, UK |

- 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
- 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 <u>Attendance</u> ; Córdoba, Argentina |
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| 11.2023 | Meeting: VII Meeting of Jóvenes Biofísicos: The Young Initiative on Biophysics - YIB Member of the organizing committee; Córdoba, Argentina |
| 03.2023 | Conference: <i>Physics of Life 2023</i> <u>Poster</u> ; Harrogate, Yorkshire UK |
| 11.2022 | Congress: L Annual Meeting of the Argentinian Biophysical Society - SAB |

◄) Science Communication

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

$oldsymbol{oldsymbol{oldsymbol{\mathsf{L}}}}$ Skills and Abilities

Methodologies

Protein Bacterial transformation, plasmid extraction, bacteria lysis, production of recombinant

expression proteins and peptides.

and purification

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

Techniques

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

Brewster angle microscopy (BAM), differential scanning calorimetry (DSC), Langmuir

Biophysics: 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 Gromacs, Visual Molecular Dynamic (VMD), CHARMM-GUI, MDAnalisys, Gaussian 16, NBO

Simulation 6.0

Others 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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Av. Haya de la Torre, 5000; Córdoba Capital-Córdoba, Argentina

Dr. Maricio Researcher. Email: mauricio.galiano@unc.edu.ar Phone: +54 9351 802 4397

Galiano Faculty of Chemistry, Universidad Nacional de Córdoba

Av. Haya de la Torre, 5000; Córdoba Capital-Córdoba, Argentina

MSc. Alberto Undergraduate supervisor. Email: asanchezl@uniquindio.edu.co Phone: +54 9351 802 8691

Sánchez López Chemistry Department Facultad de Ciencias Básicas y Tecnologías, Universidad del Quindío,

Colombia. Carrera 15 con calle 12 norte; Armenia-Quindío, Colombia