

LUCÍA BELÉN PIZARRO

PERSONAL DATA

Name Lucía Belén Pizarro
Date of Birth February 20th, 1997
Nationality Argentinian

CAREER PROFILE

2021-Present **Doctoral Fellow**, *Instituto de Investigaciones Físicoquímicas Teóricas y Aplicadas (INIFTA-CONICET)*
Research field: Metal organic frameworks, gel systems, porous functional materials, soft matter physics, programming.

April 2022-
Present **Graduate Teaching Assistant**, *Facultad de Ingeniería, Universidad Nacional de La Plata*

ACADEMIC FORMATION

2021-Present **PhD in Physics (in progress)**, *Facultad de Ciencias Exactas, Universidad Nacional de La Plata (UNLP)*
PhD Thesis: Mechanistic study of the formation of gels and monoliths using metal organic frameworks (MOFs)
Supervisors: Dr. Marcelo Ceolín, Dr. Matías Rafti
Working place: Instituto de Investigaciones Físicoquímicas Teóricas y Aplicadas (INIFTA-CONICET)

2021 **Lic. in Physics (equivalent to M. Sc. in Physics)**, *Facultad de Ciencias Exactas, Universidad Nacional de La Plata (UNLP)*. *Average Mark: 9.17/10.0*
Thesis: Structural and dynamic studies of amphiphilic monolayers at air-water interfaces. *Mark: 10.0/10.0*
Supervisor: Dr. Marcelo Ceolín

POST-GRADUATE COURSES

Oct. 2021 **Nanoscience and Technology School: Sensors and Devices**, *Comisión Nacional de Energía Atómica (CNEA), Buenos Aires, Argentina*
Professor: Dr. Alejandro Wolosiuk
Final Mark: 10.0/10.0

FELLOWSHIPS

2021-2025 **PhD CONICET Research Fellow (National Research Council)**
Topic: Mechanistic study of the formation of gels and monoliths using metal organic frameworks (MOFs).

Supervisors: Dr. Marcelo Ceolín, Dr. Matías Rafti

2019-2020 **YPF-Tecnología Internship**

Topic: Chemistry and nanomaterials area. Participating in renewable energy and environment projects.

Supervisor: Dr. Fabio Saccone

2019 **Undergraduate Research Scholarship**

Topic: Exotic phases in frustrated magnetic systems with low dimensionality: Competitive interactions in the Kitaev model for Iridates and topological phases in quiral magnets.

Supervisor: Dr. Diego Rosales

PROFESSIONAL MEMBERSHIPS

2021-Present Member of Soft Matter Laboratory (<https://softmatter.quimica.unlp.edu.ar/>)

INSTITUTIONAL MANAGEMENT

2017-2019 Member of the Teaching Committee of the Physics Appartment, Facultad de Ciencias Exactas, UNLP.

TEACHING EXPERIENCE

April 2022- Present Graduate Teaching Assistant of Mathematics D, Faculty of Engineering (FI), UNLP.

SCIENTIFIC MEETINGS

ATTENDANCE

Oct. 2021 **Primer Simposio Argentino de Metal Organic Frameworks (MOFs)**, Virtual.

Sept. 2019 **IV Jornada Jóvenes Oil Gas - Organizada por la Comisión de Jóvenes Profesionales del IAPG**, Buenos Aires, Argentina.

PUBLICATIONS

REFEREED PAPERS IN INTERNATIONAL JOURNALS

- 1 **Post-synthetic modification and chemical modulation of the ZIF-8 MOF using 3-mercaptopropionic acid (MPA): a multitechnique study on thermodynamic and kinetic aspects**

Gustavo M. Segovia, Juan A. Allegretto, Jimena S. Tuninetti, Lucía B. Pizarro, Agustín S. Picco, Marcelo Ceolín, Tanja Ursula Lüdtke, Elisa Bindini, Desiré Di Silvio, Sergio E. Moya, Omar Azzaroni and Matías Rafti
Molecular Systems Design and Engineering (2022)

ACCREDITED SCIENTIFIC RESEARCH OR TECHNOLOGICAL DEVELOPMENT PROJECTS

2022 Topic: Biocompatible porous nanomaterials as matrices for the incorporation of essential nutrients sensitive to temperature and light: stabilized folates in metal organic frameworks.

Duration: 3 years.

Character of participation: Member.

OTHER SKILLS

Language skills

Spanish: native

English: upper-intermediate level

Computational skills

Fortran 77/90/95, Python, L^AT_EX