Gonzalo Federico Fernández

Degree in Biotechnology

Argentina
1995-06-4
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Education

- Faculty of Chemical Sciences - National University of Córdoba, Córdoba - Bachelor's degree in Biotechnology.

2013 - 2021

- Colegio San José, Santiago del Estero, Argentina - High School Diploma with a biological focus.

2007 - 2012

Current position

- **FONCYT Doctoral Fellow PICT 2019 – 2775.** Under the supervision of Dr. Alejandro Fracaroli at the Department of Organic Chemistry, Faculty of Chemical Sciences, UNC. Title of the project carried out: "Synthesis and characterization of nano-structured materials for environmental remediation applications".

Work experience

- Professional Internship of the Bachelor's Degree in Biotechnology carried out in the Research and Development department of PORTA HNOS company.

July - December 2020.

Teaching experience

- Private tutoring for the subject of CHEMISTRY for high school students in 4th and 5th grades.

January 2018.

- Volunteer Assistant in the course "Laboratory III"

National University of Córdoba - Faculty of Chemical Sciences

March - July 2023

Scientific conference presentations

● "Argentine Congress of Pharmacy, Biochemistry, and Biotechnology Students." Buenos Aires, Argentina.

August 2019.

● - IX Postgraduate Conference, III Science and Technology Conference. Faculty of Chemical Sciences (UNC). Córdoba, Argentina. September 27th to 29th, 2022. Zirconium Metal-Organic Frameworks (Zr-MOFs): More Than a Solid Support for Controlled Release of Active Molecules and Metallic Nanoparticles for Heterogeneous Catalysis. Authors: Huertas N, Tatiana A.; Fernández, Gonzalo F.; Della Cagnoletta, Irina.; Granados, Alejandro.; Martín, Sandra E.; Uberman, Paula M.; Fracaroli, Alejandro.

● - 15th Latin American Conference on Physical Organic Chemistry (CLAFQO-15). Florianópolis, Santa Catarina, Brazil. November 13th to 18th, 2022. MOF-808 Supported Pd Nanoparticles as Heterogeneous Catalyst: A Non-Innocent Support for Suzuki-Miyaura Cross-Coupling Reactions. Authors: Gonzalo F. Fernández, Irina Della Cagnoletta, Sandra E. Martín, Alejandro M. Granados, Laura I. Rossi, Paula M. Uberman, Alejandro M. Fracaroli.

Courses

Postgraduate specific formation courses:

● "Characterization of Nanoporous Solids through Gas Adsorption"
National Technological University / National University of Córdoba
Completed and Approved. Final Grade: 8
September 2022

● "Analysis of Pharmaceutical Solids"
National University of Córdoba - Faculty of Chemical Sciences
Completed and Approved. Final Grade: 7
August 2022

● "Synthesis, Properties, Characterization, and (Bio)conjugation of Nanomaterials"
Completed and Approved. Final Grade: 8

National University of Córdoba - Faculty of Chemical Sciences

February - May 2022

Postgraduate general formation courses:

● "Environment, Sustainability, and Energy"

Completed and Approved. Final Grade: 7

National University of Córdoba - Faculty of Mathematics, Astronomy, and Physics

April 2023

Postgraduate teacher formation courses:

● "Teaching in Virtual Environments"

National University of Córdoba

Completed and Approved. Final Grade: 96%

June 2023

● "Introduction to University Teaching"

National University of Córdoba

Completed and Approved. Final Grade: 86%

June 2023

● En curso (Ongoing):

Power BI - Data Analysis and Business Intelligence

Involvement in research funding

● Bilateral Cooperation Project CONICET-NRF Korea:

Absorption and Diffusion of Water in Mesoscopic Structures of Metal-Organic Frameworks (MOFs). Role: Collaborator (Resolution No. 3878/17). Period: 2018-2022.

● International Cooperation Project with the University of New South Wales (UNSW), Sydney, Australia, and the Army Research Office, USA: FUNCTIONALIZED METAL-ORGANIC FRAMEWORKS (MOFs) AS HETEROGENEOUS PLATFORMS AND NANOREACTORS. Role: Collaborator. Period: 2022-2025.

● FONCYT-PICT-I-A-2019-PICT-2019-02775. Resolution No. 015/2021 MINCYT

Principal Investigator: Laura Isabel Rossi

Responsible Group: Alejandro M. Granados. Collaborator Group: Drs.

Rita Hoyos, Elisa Herrera, and Daniela Bordón; Lics. John Tovar Torres, Julieta Espeche, and María Galván; Qco Engineer Richard Ahumada; Students Carolina Tissera and Carmela Felippa, Lic. Tatiana Huertas.

Topic: Sustainable Chemistry applied to coordination compounds and nanoparticles with modified surfaces from synthesis to use in catalysis.

Amount: $2,165,625.00. Subsidy for 3 (three) years.

● CONICET 2021-2023. PIP No: 11220200102821CO. RESOL-2021-1639-APNDIR#CONICET

Principal: Dr. Alejandro M. Granados.

Co-Principal: Dr. Laura I. Rossi.

Topic: Design and Synthesis of Heterogeneous and Nanostructured Catalysts with Activity Modulated by Structural Modifications.

Amount: $1,850,000.00.

● SECYT-UNC CONSOLIDAR PROJECTS, 4 YEARS PLUS 1-YEAR EXTENSION. 2018-2022. RES. SECYT No. 411/2018 AND RES. HCS No. 97/2021.

Code 33620180100374CB

Director: Alejandro M. Granados

Co-Director: Laura I. Rossi

Investigators: Drs. Raquel V. Vico and Alejandro Fracaroli.

Topic: Synthesis and characterization of nanoparticles with modified surfaces. Applications in catalysis. Study of their interactions with biomolecules in biointerface models. Amount: 1st and 2nd year, $220,000.

Skills

- Effective Communication
- Intellectual Curiosity
- Ability to Apply Mathematics and Statistics Appropriately
- Teamwork Skills
- Adaptability
- Empathy
- Consistent Achievement of Short and Long-Term Goals
- Presentation of Ideas to Enhance Performance and Efficiency
- Oversight and Compliance with Current Regulations.

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