



JUAN J ROMERO

PHD IN CHEMISTRY - SCIENTIST

MY PROFILE

I am a young professional with a passion for tackling novel problems and solving them in a creative and efficient way. I am looking for new experiences to grow and demonstrate my full potential.

PROFESSIONAL SKILLS

Teamwork and proactivity
Leadership of human groups
Work for development objectives and goals
Fluent in English (TOEFL ITP & First Certificate, B2)
Basic skills in German (Göthe geprüft, A2)
Proficient using Office package and specific software (Origin, Sigma Plot, Matlab)
Advanced knowledge in spectroscopic techniques, microscopy and chromatography
Organic / inorganic synthesis
Cell culture maintenance
Minimum notions of Python programming

CONTACT

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Juan J Romero



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Juanjo Romero

INTERESTS AND HOBBIES

Open air activities
Team Sports
Scouting
Social Activism
Non formal education
Youth empowering movements

PROFESSIONAL CAREER

STAFF SCIENTIST (CONICET)

Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA), School of Sciences, National University of La Plata (UNLP), March 2020 - Present.

- Control of biophysical response in embryonic stem cells using external mechanical stimulus.
- Signal mechanotransduction and its impact in nuclear function and organization in embryonic stem cells.
- Design and synthesis of smart materials, focused in remote stimulus response.
- Supramolecular chemistry and nanoarchitectonics.

POSTDOCTORAL FELLOW (CONICET)

Biological Chemistry Department, School of Natural Sciences, University of Buenos Aires (UBA) April 2017 - March 2020.

- Cytoskeleton organization in embryonic stem cells and its relation with differentiation process.
- Dynamical organization of the cellular nucleus, focused on pluripotency transcription factors.
- Development and application of advanced fluorescence microscopy methods.

EXCHANGE SCHOLAR (BEC.AR - FULBRIGHT)

*School of Chemistry and Biochemistry, Arizona State University (ASU). October 2015 - April 2016.
Department of Bioengineering, University of California, Riverside (UCR). April 2016 - May 2016.*

- Rational design, synthesis and study of biomimetic systems for artificial photosynthesis.
- Synthesis and study of supramolecular charge transfer systems.
- Design and application of ultrafast optical experiments.

PHD STUDENT (CONICET)

Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA), School of Sciences, National University of La Plata (UNLP), April 2012 - March 2017

- Synthesis and characterization of nanostructured and hybrid organic/inorganic materials (Sol - gel, microemulsions and layer by layer assemblies).
- Rational design and synthesis of supramolecular systems with tunable optical properties.
- Experimental design of laser-based optical experiments and single photon detection.

COLLEGE TEACHING DUTIES

*Chemistry Department, School of Sciences, National University of La Plata (UNLP).
August 2010 - Present.*

- Basic physical chemistry - experimental and skills lab undergraduate courses.
- Basic physical chemistry - exercise resolution special classes.

ACADEMIC EDUCATION

EL MUNDO DE LAS IDEAS (INSTITUTO BAIKAL)

- Collaborative experience focused on creativity development, communication skills and entrepreneurial abilities, guided by TED local organizers.

UNIVERSITY OF BUENOS AIRES (UBA)

Postdoctoral fellow - Biological Chemistry (2017 - 2020)

- Advanced fluorescence microscopy methods and fluctuation techniques applied to biophysics.
- 3 international scientific publications (peer reviewed).

NATIONAL UNIVERSITY OF LA PLATA (UNLP)

PhD in Chemistry (2012 - 2017)

- PhD thesis (summa cum laude) focused on synthesis and design of supramolecular assemblies (based in organic compounds and nanomaterials) with tunable optical properties.
- 9 international scientific publications (peer reviewed).

BS in Chemistry (2007 - 2012)

Undergraduate research project focused on Silicon nanomaterials synthesis and optical properties (cum laude).