JOSE IGNACIO DEL RÍO DE VICENTE





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PROFILE



MSc. Material's Science Engineer/BSc. Nanotechnology Engineering specialized in Biopolymers, with experience in electrospinning. Interested Tissue Engineering, Regenerative Medicine and Biofabrication. Always curious and always trying to learn something new, I aim to develop novel technologies in Biomedicine & Biomaterials to improve health and enhance human

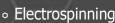
LANGUAGES



Spanish A1 A2 B1 B2 C1 C2 English A1 A2 B1 B2 C1 C2

French A1 A2 B1 B2 C1 C2 Swedish A1 A2 B1 B2 C1 C2

SKILLS



- Nanoparticle synthesis
- SEM/TEM/AFM
- Characterization of materials
- FT-IR
- XRD

CURRENT POSITION

PhD research student

Marie Sklodowska-Curie Actions Fellow in "Astrotech" Institute of microelectronics and microsystems (IMM-CNR)

Project: Design, fabrication and characterization of Glioelectronic devices for stimulation and read-out of astrocytes in vitro and in

EDUCATION



Master's degree In Advanced Materials Science and Engineering

2019-2021

Erasmus Mundus Double Master's degree:

Universitat Politècnica de Catalunya, (Catalunya, Spain)Luleå tekniska universitet (Luleå, Sweden)

Thesis: Cellulose nanocrystals functionalized cellulose acetate electrospun membranes for adsorption and separation of nanosized particles

Bachelor's Degree in Nanotechnology Engineering

2013-2019

Universidad Autónoma de Querétaro (Querétaro, México)

RESEARCH AND WORK EXPERIENCE



Laboratory of wood and nanobiocomposites

Jan 2021 - Jun 2021

Luleå University of Technology, Luleå, SwedenMaster's Thesis

"Cellulose nanocrystals functionalized cellulose acetate electrospun membranes for adsorption and separation of nanosized particles"

Laboratory of wood and nanobiocomposites

Sep 2020 - Jan 2021

Luleå University of Technology, Luleå, SwedenResearch project

"Electrospinning of nanocellulose-based networks for wound healing applications"

Research Centre in Applied Chemistry (CIQA)

Aug - Dec 2018

Apodaca, Nuevo León, México Research

internship- thesis student

"Synthesis and characterization of UV cross-linked PEO/chitosan nanofibers dopedwith zinc oxide nanoparticles with possible uses as a biomaterial"

Research Centre in Applied Chemistry (CIQA)

Jun - Jul 2018

Apodaca, Nuevo León, MéxicoSummer

research internship

"Zinc Oxide nanoparticles doped Chitosan nanofibers for osteointegration"

Laboratory of Nanostructured and functionalized materials

Oct 2017-Jun 2018

Universidad Autónoma de Querétaro MéxicoResearch internship

"Chitosan/Alginate thin films synthesis for use as wound dressings"

Laboratory of Nutraceutics

Jun - Aug 2016

Universidad Autónoma de Querétaro, MéxicoSummer research internship

"Parame'ter Optimization of electrospun fibers from COLOCASIA ESCULENTA'smodified starch"

National Institute on Drug Abuse (NIDA)

Jun - Aug 2014

Baltimore, USA

Summer research internship

"Determination of the presence of glutamatergic neurons in the nucleusaccumbens"

SCHOLARSHIPS AND AWARDS	
Marie Sklodowska-Curie Actions Fellowship (MSCA)	2021- Present
Erasmus Mundus Joint master's degree (Erasmus+) Scholarship	2020 - 2021
National Forum in novel materials for the automotive industry First place winner in poster presentation.	Sep 2018
Regional Finalist (Americas) "HULT prize" for social entrepreneurship Project: Novel materials for water harvesting	Mar 2017
National Winner "HULT prize" for social entrepreneurship Project: Novel materials for water harvesting	Jan 2017
Jóvenes de Excelencia CitiBanamex Scholarship	2016 - 2019
PUBLICATIONS	00
Estrada-Villegas, G., Del Río-De Vicente, J.I., Argueta-Figueroa, L., & González-Pére initiated crosslinking of electrospun chitosan/poly(ethylene oxide) nanofibers nanoparticles: Development of antibacterial nanofibrous hydrogel. MRS Communications doi:10.1557/mrc.2020.74	doped with ZnO-
CONGRESS PARTICIPATIONS	rai e
1st International Congress in Nanobioengineering Monterrey, Nuevo León, México Oral presentation	2018
14th International Congress on Nanostructured Materials and Nanotechnology Puerto Vallarta, Jalisco, México Poster	2018
1st National Forum in novel materials for the automotive industry Saltillo, Coahuila, México Poster	2018
5th Meeting of Young Researchers of Querétaro Querétaro, Querétaro, México Oral Presentation	2017

ADDITIONAL INFORMATION

Technological entrepreneurship

University of Cadiz, Spain (Online) Certified course	
" <i>Si podemos</i> " teacher San Joaquín, Qro, México (Rural México) Social program for adult literacy	2014

2017