

# JOSÉ IGNACIO

## DEL RÍO DE VICENTE

Rome, Italy

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### PROFILE

MSc. Material's Science Engineer/BSc. Nanotechnology Engineering specialized in Biopolymers, with experience in electrospinning. Interested in 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

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

### CURRENT POSITION

#### PhD research student

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

*Project: Design, fabrication and characterization of Glielectronic devices for stimulation and read-out of astrocytes in vitro and in vivo)*

### 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 Degree

*"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 doped with zinc oxide nanoparticles with possible uses as a biomaterial"*

#### Research Centre in Applied Chemistry (CIQA)

Jun - Jul 2018

Apodaca, Nuevo León, México Summer research internship

*"Zinc Oxide nanoparticles doped Chitosan nanofibers for osteointegration"*

#### Laboratory of Nanostructured and functionalized materials

Oct 2017-Jun 2018

Universidad Autónoma de Querétaro México Research internship

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

#### Laboratory of Nutraceuticals

Jun - Aug 2016

Universidad Autónoma de Querétaro, México Summer research internship

*"Parameter Optimization of electrospun fibers from COLOCASIA ESCULENTA's modified starch"*

#### National Institute on Drug Abuse (NIDA)

Jun - Aug 2014

Baltimore, USA

Summer research internship

*"Determination of the presence of glutamatergic neurons in the nucleus accumbens"*

## SCHOLARSHIPS AND AWARDS



Marie Skłodowska-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



Estrada-Villegas, G., Del Río-De Vicente, J.I., Argueta-Figueroa, L., & González-Pérez, G. (2020). UV-initiated crosslinking of electrospun chitosan/poly(ethylene oxide) nanofibers doped with ZnO-nanoparticles: Development of antibacterial nanofibrous hydrogel. MRS Communications, 10(4), 642-651. doi:10.1557/mrc.2020.74

## CONGRESS PARTICIPATIONS



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	2017
"Si podemos" teacher San Joaquín, Qro, México (Rural México) Social program for adult literacy	2014