

## MARÍA A. ROJAS RUIZ

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### RESEARCH INTERESTS

As a PhD student at Queen Mary University of London, I am currently pursuing research in the field of nanoscience. My interest in this area was sparked during my MSc studies in Chemical Research on nanoparticles and nanocomposites. My passion lies in exploring the potential applications of nanoscience in green chemistry and clean energy production. I believe that the development of innovative and sustainable technologies is crucial to addressing the global challenges of the 21<sup>st</sup> century, and I am excited to contribute to this field through my research.

### EDUCATION

**PhD**, Chemistry, Queen Mary University London (supervised by Dr. Cristina Giordano), Sept. 2022-present

**M.Sc**, Chemical Research, Queen Mary University of London,

**B.Sc, Chemistry**, Universitat de Barcelona, Sept 2015 - July 2020

### RESEARCH EXPERIENCE

**Research Project (undergraduate degree)**, *Institut de Nanociència i Nanotecnologia (IN<sup>2</sup>UB)* **Feb-July 2020**

Title: *New strategies to stabilize in water iron oxide and bismuth sulfide nanoparticles (NPs) for imaging diagnosis* Supervisor: Prof. Xavier Batlle and Dr. Carlos Moya

### WORKING EXPERIENCE

#### **Laboratory technician**

**Prenetics EMEA, Full-time (London (Dec 2020 - June 2022))**

Skills: RNA extraction, real-time RT-PCR, and loop-mediated isothermal amplification (LAMP) for the detection of SARS-COV-2. Experience with BSC, VLF, KingFisher, Gentier48, Real Time PCR System Flash 20, LIMS. Supervisor: Sade Astasio ([SADE.ASTASIO@OXSED.COM](mailto:SADE.ASTASIO@OXSED.COM))

**Laboratory technician, Barcelona (Nov 2019 - Sept 2020)**

**Zobebe España S.A., Placement**

Skills: R&D, formulation, evaporation, stability, physicochemical testing, and validation. Report and documentation writing, optimization of the data compliance. Supervisor: Dr. Cedric Morhain ([cedric.morhain@zobebe.com](mailto:cedric.morhain@zobebe.com))

## **Laboratory technician**

**José Collado S.A., Internship, Barcelona (Jun 2019 - Sept 2019)**

Skills: QC, quantitative and qualitative experiments on raw-material, semi-elaborated, and manufactured products. Supervisor: Montserrat Hernández (calidad.responsable@josecollado.com).

## **RELEVANT SKILLS AND MEMBERSHIPS**

**Nanoscience:** Experience in the preparation of NPs: UGR, Schlenk line, self-user TEM (JEOL 1010), XRD, glove box, centrifuge, vortex, control temperature among others related to the field.

**Languages:** Spanish (Native), Catalan (Native), English (IELTS Academic band 7).

**Computer skills:** LIMS System, Python, Octave, Maxima, ImageJ, Digital Micrograph and Origin Lab software.

**Memberships:** Student membership at the Royal Society of Chemistry.