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Ana Delia Parejo Vidal

EDUCATION

Ph. D. in Physical Chemistry University of California Santa Barbara, US 2020- End of 2024

- Thesis title: " Applications of Molecular Spectroscopy".
- Selected awards and fellowships:
  - Dr. Horia Metiu and Dr. Eun Hee Cirlin Endowed Fellowship 2024: Prestigious award recognizing outstanding achievements and strong interest in Physical Chemistry.
  - Japan Promotion of Science Postdoctoral Fellowship 2023: Awarded one of the most prestigious fellowships for postdoctoral research abroad, exceptionally granted during PhD studies to conduct independent research in the Fujii research group at Tokyo Institute of Technology, resulting in the publication of two peer-reviewed scientific articles.
- Selected conferences:
  - University of California Chemical Symposium, 2024: Awarded the Physical Division Prize sponsored by the Royal Society of Chemistry for the talk "Tip Enhanced Laser Desorption."
  - 76th International Symposium on Molecular Spectroscopy 2023: Speaker on "Excited State Double Proton or Hydrogen Transfer on Indigo in the Gas Phase: Effects in Deuteration."
  - TEDxUCSB 2023: Introduced PhD research to the general public in the talk "The Bright Side of Life." https://www.youtube.com/watch?v=DXUjbacEmDA&t=270s
  - TEDxUCSB 2024: Explained the importance of scientific research to the general public in the talk "What's the Point of Fundamental Research."

Master of Science in Chemical Sciences and Technologies, University of Granada, Spain 2019-2020

- Thesis title: " Exploring the Slow Magnetic Relaxation of lanthanide-MOFs ".
- "99% bonification" by the University of Granada, Spain 2020: Recognition of academic excellence resulting funding my Masters studies.

Bachelors of Science in Chemistry, University of Granada, Spain 2015-2019

- "Plan Propio" Fellowship by the University of Granada 2018: One of 10 fellowships awarded among 80,000 students to cover expenses for studying abroad at one of the University of California campuses during senior year of undergraduate studies.
- Award in "Excellence in Internationalization of Students" by the University of Granada 2020: Recognition of excellence in portraying the University of Granada through beyond expectations academic development during my year abroad in the UC Santa Barbara.

PROFESSIONAL EXPERIENCE

UC Santa Barbara 2020-Current
GRADUATE STUDENT RESEARCHER IN THE DE VRIES GROUP

- Technique development: Tip Enhanced Laser Desorption
  - Combined Atomic Force Microscopy with subsequent offline chemical analysis using Resonance-Enhanced Multi-Photon Ionization (REMPI).
  - Achieved lateral resolution of 10 nm and chemical analysis capable of discerning between isomers with femtomole sensitivity.
  - This work resulted in two first author publications.
- Mapping the excited state dynamics of pigments and natural bases
  - REMPI, Pump Probe and IR-hole burning spectroscopic techniques
  - Expertise in laser desorption, jet cooling and Time of Flight mass spectrometry
  - This work resulted in one first author publication and several contributions to different articles

Tokyo Institute of Technology, Japan 2023
GRADUATE STUDENT RESEARCHER IN THE FUJII GROUP

- Application and development of Electrospray ion Source- cryogenic ion trap-Time IR spectroscopy and Time of Flight mass spectrometry.
  - Measured the infrared photo-dissociation spectra of isolated natural bases, dimers, and tetramers.
  - This work resulted in two first author publications.

University of Granada, Spain 2019-2020
GRADUATE STUDENT RESEARCHER IN THE RODRIGUEZ GROUP

- Synthesis of Metal-Organic Frameworks and characterization of their structures, including their electromagnetic and luminescent properties. https://doi.org/10.3390/magnetochemistry7030041

COMPUTATIONAL SKILLS

- Labview
- Igor
- C++
- Gaussian 16
- Origin
- Matlab

LANGUAGE AND LEADING SKILLS

- Bilingual in Spanish and English.
- Coordinator of Mensa Granada, Cordoba and Jaen 2016-2020
- Mentor in several outreach programs at UCSB aiming to collaborate in a more inclusive scientific environment for underrepresented groups.