

Perez-Hernandez Andres Esau

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EDUCATION

Bachelor's Degree in Chemistry, 08-2019 – 12-2023
Department of Chemistry | Universidad de Guanajuato Guanajuato, Mexico

ACADEMIC / RESEARCH EXPERIENCE

Sustainable Chemistry Research Center UAEM-UNAM (CCIQS) | Research Intern, 09-2023 – present
Toluca, MX

"Singlet fission studies by RAS-spin-flip in carotenoids" | Prof. Barroso-Flores J.

Presented poster at:

- Mexican Reunion of Theoretical-Physical Chemists (RMFQT 2023, Pachuca)
- Internal Symposium IQ-UNAM (2023, CDMX)

Ontario Tech University (OITU) | Summer Internship 06-2023 – 08-2023
Oshawa, CAN

"Coordination-based assemblies for electrochromic (EC), electro-optic, and photonic materials" MITACS 2023 | Prof. Zenkina Olena

Universidad de Guanajuato (UG) | Research Assistant 02-2022 – 01-2023
Guanajuato, MX

"Computational evaluation of UV-Vis spectrum in flavonoids" | Prof. J. Oscar C. Jimenez-Halla

- Presented poster at Mexican Reunion of Theoretical Physical Chemists (RMFQT 2022, Cuernavaca)

University Of California, San Diego (UCSD) | Summer Internship 06-2022 – 08-2022
San Diego, USA

"Enabling Photodetection in Graphene with Quantum Dots" ENLACE 2022 | Prof. Vazquez-Mena Oscar

- Presented poster at Internal Symposium ENLACE program

LANGUAGES

Spanish — Native | **English** — Proficient TOEFL C1 | **French** — Intermediate B2

SKILLS

Soft Skills

Conflict resolution, logistics, responsibility and leadership.

Coding

Python, Linux-Bash, MATLAB, C++

Software

Gaussian-GV, Q-chem, Multiwfn, PySCF, AutoDock.

COMPETITIONS/ AWARDS

Outstanding Career, Universidad de Guanajuato 06-2024
Awarded in B.Sc in Chemistry

Honorable Mention 08-2021
Virtual Chemistry Contest 2021 (Latin America) | ANFEQUI, A.C

Scholarships





"Social Leadership" "Mobility Support Grant 2022" | JuventudesGTO, "ENLACE" | Viasat.Inc, "GRI Award" + "Program Ambassador" | MITACS

PROJECTS / COURSES / EVENTS / ACTIVITIES:

2024 Graduate Student Mentorship Initiative 08-2024 – present
Scholar | Cientifico Latino, Inc.

Aspire Leaders 24 program Spring cohort Alumni Aspire Leaders Inc.	05-2024 – 08-2024
Quantum Chemistry Calculations with Python Course Chemistry With Code	01-2023 – 03-2023
Espiral UG Science outreach article "Las moléculas queer, flavonoides" Favor de Interrumpir 6th ed. 2022, pp 35–40 (Queer molecules, Flavonoids)	02-2022
How to write a scientific research article in English Course Casa d'Estudis El Pont / Casa de Lletres	02-2022 – 04-2022
Tecnociencia Science outreach article Todos Somos Complices. Science-T. 2021 1st ed, pp 41–43 (Safety culture in academia)	12-2021
Global Speakers Discussion Group Intermediate french JuventudesGTO	03-2021 – 11-2021
Foundations of Chemical Safety and Risk Management Course American Chemical Society	07-2021 – 10-2021
Ciencia Viva 2021 Workshop Participant Centro de Investigación y de Estudios Avanzados (CINVESTAV)	08-2021
Electrochemistry National School in Environmental Procedures Participant Universidad de Guanajuato	02-2021 – 03-2021
"UG Leaders in Development" Virtual camp Universidad de Guanajuato	11-2020 – 02-2021
Academic Skills Course Listening, note-taking, seminar skills, and academic writing University Of York	08-2020 – 09-2020

SOCIAL ACTIVITIES AND ORGANIZED GROUPS

Ciencia En El Extranjero <ul style="list-style-type: none"> Created an open-source repository with research internship opportunities available for Mexican students around the world github.com/Andres8ezau/CienciaEnElExtranjero  	05-2023 – present
Escuela Iberoamericana de Técnicas de Separación Sustentables 2022 UG <ul style="list-style-type: none"> Co-led an experimental workshop titled "Application of ion exchange separation systems in the recovery of metal ions" with other students under the supervision of Prof. Avila-Rodriguez. Universidad de Guanajuato 	11-2022 Guanajuato, MX
Ciencia En Tu Comunidad Mx CETCMx <ul style="list-style-type: none"> Designed infographics, outreach science content, seminars, helped with the logistics of events. Prepared and gave an introductory UV-Vis spectroscopy workshop for +20 students. 	09-2021 – 12-2021
Scholar Manager Youth GTO/JuventudesGTO <ul style="list-style-type: none"> Coordinated weekly meetings, working under three axes: human development, internationalization and professionalization . Developed social projects with group members and presenting reports and evidence of activities . 	01-2019 – 08-2021 Guanajuato, MX
Student Section of the Mexican Chemical Society SE-SQM-UG <ul style="list-style-type: none"> Assisted in logistics and events organization. Conducted various activities focused on chemistry outreach. 	2020 – 2021 Guanajuato, MX
1st Francophonie Cultural Festival ENMS Centro Histórico León <ul style="list-style-type: none"> Co-founder and organizer of the 1st Francophonie at UG highschool, a 3 day event of conferences, gastronomic tasting, workshops and contest with over 200+ attendants. . 	05-2019 Leon, MX