




# Diego Wust-Calvo

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## Education

<b>Bachelor in Engineering Physics</b> Instituto Tecnológico de Costa Rica (ITCR)	<b>2020 - Present</b>
<b>International Baccalaureate (IB)</b> Yorkin School	<b>2018 - 2019</b>

## Work Experience

<b>ITCR-School of Chemistry</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>Investigation using Low Field Nuclear Magnetic Resonance (NMR) techniques, with a focus on the Physics behind the technique.</li><li>Work includes operation of NMR equipment, sample preparation, spin relaxation time measurement, spectrum interpretation, and molecule identification.</li></ul> <b>Supervisor: Ph.D. Isaac Céspedes-Camacho</b>	<b>2023 - Present</b>
<b>ITCR Student Group-TECSpace</b> <i>Rover Development</i> <ul style="list-style-type: none"><li>Design and construction of a rover's robotic arm to collect volcanic samples from Costa Rica's volcanoes.</li><li>Work includes component design, assembly and testing.</li></ul> <b>Student-run project</b>	<b>2023 - Present</b>
<b>ITCR-Delta Laboratories</b> <i>Ambient Air Monitoring System (AAMS)</i> <ul style="list-style-type: none"><li>Development of an AAMS to detect Sulfur Dioxide, Nitrogen Dioxide, and Carbon Monoxide in the air.</li><li>Work primarily focused on power and energy supply to the AAMS via solar panels.</li></ul> <b>Supervisor: Eng. Juan José Rojas-Hernández</b>	<b>2023 - Present</b>
<b>ITCR-School of Chemistry</b> <i>Basic Chemistry II Teacher's Assistant</i> <ul style="list-style-type: none"><li>Grading of exams and quizzes on chemical solutions, thermodynamics, chemical kinetics, chemical equilibrium, among other related topics.</li></ul> <b>Supervisor: Ph.D. Isaac Céspedes-Camacho</b>	<b>2023 - Present</b>
<b>ITCR-School of Mathematics</b> <i>Multivariable Calculus Teacher's Assistant</i> <ul style="list-style-type: none"><li>Grading of quizzes and homework on topics like conic sections, quadric surfaces, cylindrical surfaces, solids, partial derivatives, Lagrange multipliers, double and triple integrals, polar coordinates, vector fields theory, among others.</li></ul> <b>Supervisor: M.Sc Juan José Fallas-Monge</b>	<b>2022 - June 2023</b>

Certificates and Awards

- Honor Scholarship-Department of Scholarships and Social Management ITCR**

2022-Present

Scholarship awarded because of outstanding academic performance.
- Best Admission Scores for the ITCR Selection Process**

2020

Recognition for having an admission score amongst the top 10 in the country.
- Cambridge English Level 3 Certificate in ESOL International (Advanced)**

2018

Certificate in Advanced English-Performance at Council of Europe Level C2.

Memberships

- Member of Student Group TECSpace

2023-Present
- Member of the American Chemical Society (ACS)

2022-Present

Publications

[1] D. Wust-Calvo, J. A. Borloz-Chinchilla, B. Ortega-Cordero, I. F. Céspedes-Camacho, “Applied Physics as a bridge between Physics and Chemistry in the field of NMR: Costa Rica's Perspective”, presented at ACS Fall 2023: Harnessing the Power of Data, San Francisco, CA.

Languages

- Spanish - Native
- English - Cambridge C2

Technical Skills

- Python
- LabVIEW
- SolidWorks
- Fusion 360
- Minitab
- LaTeX
- MS Excel
- Visual Basic
- LTSpice
- Multisim

Soft Skills

- Leadership
- Teamwork
- Problem-solving
- Commitment
- Versatility
- Creativity
- Ambition
- Perseverance
- Reliable
- Adaptability