

Education:

- 2012 - 2016 **B. S. in Engineering Physics**, Tecnológico de Monterrey, Summa Cum Laude
— International Degree (Honors), Research and Innovation Program
- 2014 - 2015 **Study Abroad**, University of Illinois at Urbana-Champaign
— Technology Commercialization Certificate Program

Experience:

- Aug. 2016 - present **Teaching Laboratory Technician**, Tecnológico de Monterrey, Physics Department
— Provide technical support for the Materials Characterization Lab (XRD, AFM, FT-IR, UV-VIS)
— Explore advanced X-ray line profile analysis methods
— Redesign the *Experimental Physics II* (F-3025) course, TA appointment (Fall 2016, 3 groups)
- Aug. 2015 - May 2016 **Undergraduate Research**, Tecnológico de Monterrey, Physics Department, Professor Flavio Contreras-Torres (contreras.flavio@itesm.mx)
— **Senior Project:** Microstructural characterization of Fm-3m materials through the Modified Williamson- Hall method of X-ray line profile analysis
— *Physics II* (F-1003), TA appointment (Spring 2016, 2 groups)
— *Atomic Scale Microscopy* (F-95026), TA appointment (Fall 2015, 1 group)
- May 2015 - Aug. 2015 **Research Internship**, Simon Fraser University, Physics Department, Professor Jeffrey McGuirk (jmcguirk@sfu.ca)
— Designed a flexible loffe-Pritchard magnetic trap based upon electromagnetic coils
— Developed simulations of the trapping magnetic fields (MATLAB) in order to probe the achievable trapping parameters as a function of physical constraints.
- Jan. 2013 - Dec. 2015 **Undergraduate Research**, Tecnológico de Monterrey, Chemistry Department, Professor Luz María Martínez Calderón (luzvidea@itesm.mx)
— Redesigned the data acquisition interface for a do-it-yourself Differential Thermal Analysis set-up (Labview)
— Refined the devices' power source and control loops in terms of more accessible alternatives (Arduino-based, integrated circuits)

Publications:

- under peer review Danyel Cavazos-Cavazos and Flavio F. Contreras-Torres, *Determination of contrast factors for cubic slip-systems and their application in the microstructural characterization of binary Fm-3m materials*, arXiv:1608.06591
— Submitted for publication to the *Journal of Physics and Chemistry of Solids*

Awards and Associations:

- 2016 Member, Mexican Physical Society
2015 Mitacs Globalink Research Internship

Freelancing:

- 2014 - present **Science Graphic Designer**
— Create graphical abstracts, figures and illustrations for publication in scientific journals
— Design content and visuals for edTech startups, including Knowledgehook (Canada), Thesis-ABC (Germany), Socratic (New York), Humbot (Switzerland), AuthorShip Co. (India)