

Jose Carlos Davila Labastida

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Objective

Internship in engineering process & technology. Focus in separations for energy applications a plus.

Education

Austin, TX	University of Texas at Austin	Aug 2017–Present
Ph.D. in Chemical Engineering (graduating in 2022)		GPA: 3.710

- Thesis: *Reverse-selective ultra-permeable membranes for dehydrogenation and NGL separations.*
- Developed and characterizing a platform that exceeds commercial membrane performance tenfold.
- Designed and automating a mixed-gas and vapor separations testbed for the NSF CISTAR ERC.
- Served as Separations and Thermodynamics teaching assistant and department's recruitment chair.
- Led outreach activities including the annual Playing with Plastics and Frozen Chemistry shows.
- Jointly advised by professors Joan Brennecke and Benny Freeman within the CISTAR initiative.

College Station, TX	Texas A&M University	Aug 2013–May 2017
B.S. in Chemical Engineering		GPA: 3.730

- Minor in Chemistry; Certificates in Therapeutics Manufacturing and Energy Engineering.
- Who's Who among Students 2017, OXE award 2017, SHPE Scholar 2016, GE Scholar 2015.
- 80% self-funded through work-study and generous external scholarships and grants.

Research

Baton Rouge, LA	LSU Dept. of Chemical Engineering	May–Jul 2016
REU Researcher		

- Synthesized and characterized (XRD, Raman, GAP, TGA/DSC, etc.) REOm reforming catalysts.
- Co-authored and presented results in Baton Rouge, Seattle: *Rapid screening of ternary rare-earth – transition metal catalysts for dry reforming of methane and characterization of final structures.*

College Station, TX	McFerrin Dept. of Chemical Engineering	Aug–Dec 2015
Undergraduate Researcher		

- Recommended conditions that maximize sugar yield from enzymatic hydrolysis of cellulose.

Work

College Station, TX	Texas A&M Health Science Center	Jun–Jul 2015
Molecular and Cellular Medicine Student Worker		

- Co-planned annual EHS Summer Institute & National Conference serving over 200 K-12 teachers.

Austin, TX	New Age Rocks, Inc.	Jun–Aug 2014
Marketing Assistant		

- Generated banners, brochures, business cards, e-mail campaigns, quotes and refined sales website.

Leadership

SciRes Partner	Jackson School of Geosciences ESI	F2017–Present
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Social Chair	Graduate Leadership Council	F2017–F2019
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President	Tau Beta Pi Engg. Honor Society, TX D	S2015–S2017
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- Planned AD, PD, Service, and Fundraising events for over 180 members and 100+ candidates.
- Led a team of 10 officers in organizing, marketing, and implementing 20+ events per semester.

Social Chair	TAMU Orchestra Club	F2014–S2017
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Mentor	Society of Hispanic Professional Engineers	F2013–Present
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- Mentored in and promoted Academic development programs (MentorSHPE, *Noche de Ciencias*).

Skills

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- Spanish, Excel/VBA, Publisher, Python, MATLAB, LabVIEW, Java, PhotoShop, CorelDraw.

