

Erica Amelia Mason

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Objective: Seeking a summer internship in Chemical Engineering

Education: Bachelor of Science, Chemical Engineering **GPA: 3.73**
The University of Texas at Austin **Expected May 2018**

Related/Current Courses: Thermodynamics, Photovoltaics, Transport Phenomena, Physical Chemistry 1 and 2, Organic Chemistry/Lab 1 and 2, Differential Equations, Engineering Communications; Intro to MATLAB

Experience: **Synthesis and Photocatalytic Performance of FWCNT and TiO₂-CNT Pickering Emulsions in the Degradation of Organic Dyes**
Dr. Saleh Sustainable Nano-Engineering Lab **Spring 2016 – Present**

- Synthesis and analysis of Pickering Emulsions of FWCNTs and Sudan iii dye
- Skills: Tip and Bath Sonication, UV-Vis Spectroscopy, Confocal Microscopy, SEM, Raman; use of Rayonet RPR-100 Photo Reactor to degrade dye

Engineering Summer Research Internship

Dr. Jose Miguel Aguilera Gastronomic Engineering Lab
Pontificia Universidad Católica, Chile **Summer 2016**

- Stabilization of oil in water microemulsions of WPI and sodium alginate
- Skills: Optical Microscopy, Ultra Turrax; conduct research in spanish

Silver Nanoparticle (AgNP) Synthesis and Toxicity Analysis

Graduates Linked with Undergraduates in Engineering **Fall 2015**

- Synthesize and Characterize AgNPs and apprentice Grad student
- Skills: DLS, Clean Lab training, Wet lab techniques, Fire Extinguisher Certified

UT Austin Study Abroad - Santander, Spain **Summer 2015**

Publications: *“Wavelength shifting of Chemiluminescence using Quantum Dots to enhance Tissue Light penetration.”* Optical Materials Express 2016

Foreign Language Fluent in Spanish

Awards: **Research Competitions:** 1st PEER Engineering Research Competition GLUE Division (Spring 2016) and 3rd PEER Engineering Research Competition Underclassmen Division (Spring 2016)
Scholarships/Honors: UT Engineering Honors College Scholar (2016), UT Student Success Scholarship (2015), UT Engineering Honors Scholarship (2014), Texas Exes Regional Scholarship (2014)
Athletics: 3rd at Texas Collegiate Climbing Series Regional Championship (2015)

Activities: **Society of Women Engineers (SWE)** - Member 2014-Present
UT Austin Campus Ministry: FOCUS Student Leadership Summit (2016), FOCUS Mission Trip Guatemala (2016), Social Justice Team Member (2015-Present)
UT Austin Rock Climbing Team - Member 2014-2015

Interests: Hiking, travel, Spanish culture, unicycling