

Victor Segui Barragan

Education

University of Texas at Austin: Chemistry PhD Student

August 2020 – Present

Texas Wesleyan University: B.S. Chemistry, *Summa Cum Laude*

December 2019

GPA: 4.00

Relevant Experience

Chemistry Research (Supervised by Dr. Weir)

June 2018 - December 2019

- Synthesized gold nanoparticles of different sizes with citrate (aqueous) and thiol (organic) ligands.
- Determined catalytic effect of nanoparticles on electrochemical reactions.
- Measured nanoparticles samples using and analyzed data from UV-Vis, TEM, and Cyclic Voltammetry.
- Presented results on several presentations at a university, local, and national level.

Laboratory Assistant

August 2017 - December 2019

- Set up undergraduate laboratories by preparing solutions and equipment.
- Tested laboratory procedures to verify successful results.
- Maintained the laboratories in good condition.

American Chemical Society (ACS) Chapter

August 2017 - December 2019

- President of the chapter, previously Secretary and Member.
- Organized demonstrations and events, such as volunteering at the Fort Worth Museum of Science for National Chemistry Week open to the public.

Student Tutor

August 2019 - December 2019

- One-on-one appointments with undergraduate students.
- Teaching General Chemistry I and II, Organic Chemistry I and II, Calculus I and II, and Logic.

Varsity Player in University Table Tennis Team

August 2016 - December 2019

- Two year National Champions (2017 and 2019) and Team Captain (2018).
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Honors

Scholarships

- Academic: Dean's Scholarship
- Sports: Varsity Table Tennis Team

Awards

- Welch Foundation grant for chemistry research (2 years)
 - Dean's List (7 semesters)
 - Academic Certificate for maintaining 3.5 GPA or more.
 - Alpha Chi Member
 - National College Honor Society
 - Outstanding Junior in Chemistry (Texas Wesleyan University Chemistry Department, Spring 2019)
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Presentations and Publications

Presentations

- Oral Presentation at Gulf Coast Undergraduate Research Symposium in Rice University (November 2019).
 - "Synthesis and Characterization of Gold Nanoparticles as Electrochemical Catalysts"
- Poster Presentation at ACS Fall National Meeting in San Diego (August 2019).
 - "Synthesis and Characterization of Gold Nanoparticles as Electrochemical Catalysts"
- Oral Presentation at Annual DFW/ACS Meeting in Miniature (April 2019).
 - "Synthesis of Gold Nanoparticles"
- Poster Presentation at University College Day in Texas Wesleyan University (April 2019).
 - "Synthesis of Gold Nanoparticles"