

Cadence Carol Chiappe

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EDUCATION

University of Dallas, Irving, TX

May 2021

Bachelor of Science, Chemistry

- O'Hara Chemical Institute Program and Scholarship, Summer 2017
- Study abroad: Rome, Italy, Spring 2019
- Chemistry/Biochemistry Departmental Scholarship
- Trustee Scholarship

LABORATORY EXPERIENCE

Chemistry Analyst, R&D, ICU Medical, Austin, TX

June 2021 – Present

- Developed HPLC-FLD methods, contributed to CQ and CAPA investigations.
- Experience on HPLC, GC-MS, SEM, Melt Flow Index, DSC, FTIR, and TOC. Well versed in wet chemistry. Trained in cGMP, cGLP, and GDP. Currently a contractor through DISYS.

Student Researcher, University of Dallas Chemistry Department, Irving, TX

June 2020 – Aug 2020

- Researched the application of the coupled semiconductor ZnO/Cu₂O as a photocatalyst for the degradation of tetracyclines in wastewater.
- Designed experiments to identify novel product observed during material characterization experiments.
- Utilized SEM, EDX, UV/Vis spectroscopy, NMR, AAS, and pH during lab work.
- Wet chemistry included solution preparation, syntheses utilizing photodeposition, and kinetic degradation experiments.
- Presented research at University of Dallas 9th Annual Research Symposium

Lab Teaching Assistant, University of Dallas Chemistry Department, Irving, TX

June-Aug 2018 – Aug-Dec 2019

- Tutored undergraduate students, taught lab technique, and answered questions in lab
- Graded lab notebooks and other lab assignments
- Assisted professors with lab setup, including solution preparation, and cleanup, including proper waste disposal with detailed documentation.

ADDITIONAL WORK EXPERIENCE

Barista, Coffee on the Rocks, Estes Park, CO

Dec 2017 – Jan 2018

- Provided excellent customer service in a fast-paced environment.

UNIVERSITY LEADERSHIP

Member of Women in STEM

Aug 2019 – May 2021

Member of SMACS Student Members of the American Chemical Society

Aug 2017 – May 2021

Senator, Student Government

Jan 2020 – Dec 2020

- Served as Chairwoman of the Administrative Functions Committee
- Spearheaded the project to create a best practices document in order to increase efficiency from year to year by limiting the learning curve of new senators and executive council members.

Representative, National Chemistry Week Fort Worth Museum of Science

Oct 2017, Oct 2019

- Represented university at event booth, demonstrating scientific concepts to elementary aged students interested in chemistry and other STEM fields.

SKILLS

Laboratory Instrumentation and Techniques

- Scanning Electron Microscopy (SEM), UV/Vis Spectroscopy, IR Spectroscopy, Spectrophotometry, Gravimetric Analysis, Nuclear Magnetic Resonance (NMR), Atomic Absorption Spectroscopy (AAS/FAAS), Fluorescence Spectroscopy, Liquid Chromatography (HPLC/UPLC), Gas Chromatography (GC-MS) Titration, wet chemistry, polarimetry, TOC, and distillations.

Other

- Proficient in Microsoft Excel, Word, and PowerPoint