

Waldo Black

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SUMMARY

Dynamic Senior Chemistry major with significant laboratory and research skills. Dependable and organized with the ability to work independently in any lab setting. Strong interest in environmental chemistry.

EDUCATION

Bachelor of Science in Chemistry

May 2016

University of Houston-Downtown, Houston, TX

GPA: 3.7

Awards: Scholar's Academy Scholarship Recipient

RELEVANT COURSEWORK

Analytical Chemistry I and II

- Explored impact of chemical processes on environmental hazards, deep sea 'black smoker' vents, early detection of cancer, high-speed DNA sequencing, bio-and chemical warfare agents and ultra-microfabricated sensors

LABORATORY SKILLS

Wet Chemistry, GC (Gas Chromatography), TOC (Total Organic Carbon) Manual Titration, Reagent Preparation, UV-Vis Spectroscopy, Extractions, DHA analysis, Densitometer, Houston Atlas, Antek Sulfur, Metals by Atomic Absorption, Statistical Quality Control, Micro-coulometer, Analytic Balance, Hydrometer, FTIR, Hunter Color, GC-Low Ox, GC-MS, ICP, ICP-MS, Head-space GC

RESEARCH

Chemistry Department Research Assistant

January 2015-May 2016

University of Houston-Downtown, Houston, TX

- Research kinetics of attaching metalloporphyrins to self-assembled monolayers on gold electrodes
- Perform electrochemistry processes on the monolayers to improve electrical conductivity

PRESENTATIONS

Black, Waldo. "Kinetics of Attaching Metalloporphyrins to Self-assembled Monolayers on Gold Electrodes." University of Houston-Downtown Student Research Conference, Houston, TX. 21 April 2015.
April 2015

RELATED EXPERIENCE

Intern

May 2015-August 2015

Texas Energy Group, Houston, TX

- Gathered green power purchasing data from Phoenix metropolitan utilities and compiled report
- Updated website and social media outlets to notify others of organization's mission and events
- Devised a renewable energy fact sheet which included information on renewable technologies, environmental benefits, economic impacts, and consumer education issues

Intern

May 2014-August 2014

Shell Oil Corp., Houston, TX

- Collaborated with a team to develop an expanded testing method on the DC Arc Optical Emission Spectrometer to measure trace metal impurities in molybdenum metal
- Participated in the installation, operation, and maintenance of chemistry lab equipment and duties
- Installed and operated a wide variety of laboratory equipment including NMR and high-resolution lasers

TECHNICAL SKILLS

Proficient in SPSS, DC Arc Optical Emission Microsoft (MS) Word, Excel, PowerPoint