

# Wanda Black

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## *Forensic Chemist*

### SUMMARY

Highly organized college senior pursuing a degree in Chemistry with a concentration in Forensics. Passionate about discovering and interpreting data. Resourceful and detail-oriented; skilled problem-solver and multi-tasker.

### EDUCATION

#### **Bachelor of Science in Chemistry Candidate**

May 2020

University of Houston-Downtown, Houston, TX

**GPA:** 3.7

**Awards:** Scholar's Academy Scholarship Recipient

### 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

### 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 ultramicrofabricated sensors

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

April 2018

### RELATED EXPERIENCE

#### **Intern**

May 2017-August 2019

*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**

Mary 2015-August 2016

*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 AND COMPUTER SKILLS

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