Wesley Black

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SUMMARY

Sustainability-conscious, outgoing Chemistry student with excellent laboratory skills. Strong communicator and leader with a passion for environmental research. Extremely conscientious and work hard to get things done right the first time.

LABORATORY SKILLS

Organic synthesis, atmosphere sensitive reactions (glove box), ionic exchange columns, purification methods, titrations and wet chemistry, filtration methods, distillation and fractional distillation, crystallization for XRD measurements, liquid-liquid extraction, rotary evaporation, metathesis, salting out.

EDUCATION

University of Houston-Downtown*,* Houston, TX
Bachelor of Science in Chemistry with concentration in Biochemistry May 2018
Minor: Physics
GPA: 3.7
Honors: Dean's List (Fall 2015, Spring 2016)
Welch Foundation Scholarship for Student Researchers (2013 – 2015)
Awards: The *Excellence in Chemistry Award (*2015-2016 academic year)
The *Excellence in General Physics Award (*2015-2016 academic year)

RESEARCH

Chemistry Department Research Assistant Jan.2015-Present
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
- Synthesized research findings into 10-page paper to pursue publication

PRESENTATIONS

Black, Walter. "Kinetics of Attaching Metalloporphyrins to Self-assembled Monolayers on Gold Electrodes," UHD Student Research Conference, University of Houston-Downtown, Houston, Texas 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 Mary 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

ADDITIONAL SKILLS

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