

CONNOR HAYS

3751 Appian Way Apt. 204, Lexington, KY, 40517

C: 5027592748

Cjhays044@gmail.com

Skills Summary

- Substantial laboratory experience with modern biochemical techniques
- Quick learner; strong analytical and problem-solving skills
- Outstanding oral and written communication skills
- Self-motivated, persistent, and passionate
- Experienced leader; reliable and efficient team player

Education

B. S. Biochemistry and Molecular Biology, Centre College, 2018.

Relevant coursework includes Accelerated General Chemistry, Organic Chemistry 1, Introduction to Inorganic and Analytical Chemistry, Introduction to Genetics, General Physics 1 (calculus-based), AP Calculus AB (equivalent to Calculus 1), Calculus 2, Calculus 3, Organic Chemistry 2, Introduction to Biochemistry and Cellular Biology, Thermodynamics and Kinetics, Macromolecules, Linear Algebra, Histology, Biochemistry Lab Techniques, Microbiology, Cellular Metabolism, Introduction to Statistics, Differential Equations, Bioinformatics and Genomics, Immunology, Molecular Genetics, Probability Theory, Cell Biology, Mathematical Statistics, and Senior Seminar in Biochemistry and Molecular Biology.

Relevant techniques learned at Centre College include preparation of solutions, polymerase chain reactions, column chromatography, reading nuclear magnetic resonance spectra, measuring enzyme kinetics, cell culturing, fluorescence labeling, immunocytochemistry, microscopy, staining and biochemical testing allowing identification of microbes, performing genetic crosses with *Drosophila melanogaster*, spectrophotometry, using databases, performing and analyzing DNA sequencing methods including next-generation sequencing, analyzing microarrays, assembling genomes, sequence alignment, introducing a transgene to bacteria, genotyping, western blotting, SDS-PAGE, and many more.

Experience

Sales Associate at Hays and Associates, Inc./2010-2015 (School breaks only)

As Sales Associate at Hays and Associates, Inc, I prepared an auction by assembling furniture, moving items to the necessary locations, clerking, and performing other logistical tasks. During the auctions, I sold items in the rings by calling out the item number and displaying the item for customers to examine. I also moved sold merchandise. This led to a more efficient auction.

Research Intern at Alltech, Inc./June 2016-August 2016

As a Research Intern at Alltech, Inc., I researched the effects of butyric acid on populations of *Salmonella enteritidis* in chicken cecal samples. By preparing growth media, using plating techniques, testing turbidity, isolating and extracting DNA, using quantitative polymerase chain reactions, and collaborating with several professionals, I determined that certain butyric acid concentrations inhibit the growth of *S. enteritidis* populations, assisting in the creation of new animal feed products. As part of this opportunity, I wrote a formal research paper and presented my findings to the professionals at Alltech, Inc.

Vice President of Leadership at Alpha Phi Omega, Theta Theta chapter/May 2016-May 2017

Alpha Phi Omega is a national, coeducational service fraternity dedicated to the principles of leadership, friendship, and service. As the Vice President of Leadership at the Theta Theta chapter of Alpha Phi Omega at Centre College, I presided over the leadership development of the chapter by planning events, collaborating with brothers within the chapter and around central Kentucky, and collaborating with campus and Fraternity leaders. Because I was Vice President of Leadership, more brothers than ever before have completed Fraternity leadership development courses, which further connected the chapter to the broader Fraternity.

Voting Delegate at the 2016 Alpha Phi Omega National Convention/December 2016

As a voting delegate during this Convention, I represented the Theta Theta chapter as I voted on proposals ranging from alumni involvement at the national level to realignment of the administrative Regions to promoting inclusivity within the Fraternity. Due to my vote, the Fraternity is changing in major ways, including in our Toast Song reflecting the inclusion of women and in the redistribution of the administrative Regions.

President of Alpha Phi Omega, Theta Theta chapter/May 2017-May 2018

As President, I supervised and coordinated all of my chapter's officers, ensuring that our chapter worked as efficiently as possible to attain the chapter's goals. I also served as a liaison between my chapter and the wider Fraternity, my school, and the community, respectively. During my tenure, the chapter more than doubled in size—winning the Joseph Scanlon National Certificate of Merit due to such excellent growth—and became more connected to the larger Fraternity.

Voting delegate at the 2017 Alpha Phi Omega Region V Conference/November 2017

Every odd year, Alpha Phi Omega Region V hosts a region-wide conference. As a voting delegate during this Convention, I represented the Theta Theta chapter as I voted on proposals ranging from awards to the drawing of Section boundaries. Because of my vote, the Fraternity began redrawing Sections in accordance with the redistribution of administrative Regions.

Awards and Acknowledgements

1. Meritorious Award for submission to A Systemic Initiative for Modeling Investigations & Opportunities with Differential Equations (SIMIODE)
2. Gold Sash recipient—an honor bestowed upon those who have demonstrated incredible leadership, friendship, and service within the Theta Theta chapter of Alpha Phi Omega
3. Blue Sash recipient—an honor bestowed upon those who have completed at least 80 hours of internal service within Alpha Phi Omega
4. Eagle Scout
5. Ordeal Member of the Order of the Arrow in the Boy Scouts of America
6. Member of Spectrum, an award-winning literary magazine at Oldham County High School
7. Member of the Oldham County High School Kentucky United Nations Assembly delegation in 2013, when the delegation was awarded Outstanding Delegation.
8. Graduated as valedictorian of Oldham County High School with a weighted GPA of 4.2 and an unweighted GPA of 4.0.
9. Governor's Scholar in 2013 at Murray State University
10. Member of the Beta Club, an organization dedicated to academics and service
11. Member of the National Honor Society, an organization dedicated to academics and service

References

Dr. Stephen Asmus

steve.asmus@centre.edu

W: 8592385318

Dr. Kristen Brennan

kbrennan@alltech.com

W: 8598873246

Dr. Eva Cadavid

eva.cadavid@centre.edu

W: 8592385945

Dr. Karl Dawson

kdawson@alltech.com

W: 8598859613

Dr. Leonard Demoranville

leonard.demoranville@centre.edu

W: 8592386066

Dr. Stephanie Dew

stephanie.dew@centre.edu

W: 8592385316

Dr. Kelly O'Quin

kelly.oquin@centre.edu

W: 8592385370

Dr. Margaret Richey

peggy.richey@centre.edu

W: 8592385319

Dr. William Weston

beau.weston@centre.edu

W: 8592388789