ILIKE CHEMISTRY

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EDUCATION

Carnegie Mellon University (CMU)   **Pittsburgh, PA**
Bachelor of Science in Chemistry, Minor in Computer Science   **May 2016**
Cumulative GPA: 3.5   Major GPA: 4.0

RELEVANT COURSEWORK

Modern Organic Chemistry I & II   Fundamentals of Programming & Computer Science
Modern Analytical Instrumentation   Molecular Design & Synthesis
Mathematical Method for Chemists   Principles of Software System Construction

ACADEMIC PROJECTS

Ethoxyquin and Fat in Pet Food   **Fall 2014**
- Team project on quantitative analysis of fat preservative ethoxyquin in pet food and fat, and inquiry on relationship between the amount of ethoxyquin and fat

Structural Chemistry Simulator   **Spring 2013**
- Wrote a program in python to assist students visualize 3D molecular structures
- Project video: http://www.youtube.com/watch?v=dTYK-KcCLGM

TECHNICAL SKILLS

Computer and Programming: Proficient programming in Python and Java; basic knowledge of C; Microsoft office
Laboratory: Column chromatography, high performance liquid chromatography (HPLC), infrared spectroscopy (IR), nuclear magnetic resonance (NMR) spectrum, ultraviolet and visible spectrophotometry, matrix-assisted laser desorption/ionization mass spectrometry (MALDI)

RESEARCH EXPERIENCE

Institute of Organic Chemistry, Friedrich-Schiller University   **May 2014 – August 2014**
- Worked on improving anti-tuberculosis activity of pyridomycin by synthesizing 3-hydroxy pyridine derivatives with cross coupling reactions

Bioorganic Chemistry Lab, Carnegie Mellon University   **January 2013 – May 2014**
- Target unstable expansion repeat by native chemical ligation (NCL) of peptide nucleic acid (PNA)
- MALDI and melting point measurement of NCL reaction results
- Multi-step synthesis and purification of PNA monomers

WORK EXPERIENCE

Fundamentals of Programming and Computer Science, CMU   **Pittsburgh, PA**
Course Assistant   **September 2013 – Present**
- Plan and teach weekly recitations to supplement lectures
- Lead course-wide homework preparation and exam review sessions
- Hold office hours to guide students in problem solving
- Lead tutoring sessions for both individuals and groups
- Mentor students through individual final term projects

HONORS

Research Internship in Science and Engineering (RISE) Scholar
HHMI Fellowship for Summer Researcher