Travis Daniel Hooper

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Education

Texas A&M University College Station, TX
Graduate Studies in Chemistry, September 2011 – *June 2012*

Portland State University Portland, OR
Bachelor of Science in Chemistry, September 2009 – *August 2011*
GPA: 3.59/4.0

Portland Community College Portland, OR
Associate of General Studies, September 2007 – *June 2010*
GPA: 3.29/4.0

Work Experience

MakerSquare Austin, TX
Student Web Developer, *August 2014-Present*

- MakerSquare is a 12 week full-time immersive learning program for web development, which teaches students the fundamental principles needed to be a successful web developer.
- Designed and built a variety of web applications with an emphasis on writing clean and maintainable code and utilizing MVC and REST patterns
- Developed a proficiency in JavaScript, Ruby, Rails, HTML, CSS, jQuery, Angular.js, Express.js, RSpec, Postgres and Git

Nutraceutical Systems International Austin, TX
Analytical Chemist, *July 2013-September 2014*

- Perform quality control assays in a GMP lab setting to determine identity, concentration, adulteration and impurities of raw material to be used in dietary supplements using a variety of techniques including TLC, UV-VIS, PCR, titration, and gravimetric analysis
- Develop and validate analytical test methods for which a published test method cannot be sourced
- Assist in product development of new or revised supplement formulations

Worldwide Clinical Trials Austin, TX
Production Analyst, *July 2012-July 2013*

- Perform analytical extractions in a GLP lab setting of pharmaceutical compounds from biological matrices (plasma, blood, urine) to determine concentration of the analyte in clinical trial samples
- Validate extraction methods by determining analyte stability at various stages of the extraction method
- Assist in method development when method encounters issues during method validation

Texas A&M University College Station, TX
Graduate Teaching Assistant / Research Assistant, *September 2011 – June 2012*

- Performed research in designing a working model of the eukaryotic cytosolic iron-sulfur cluster assembly (CIA) pathway
- Successfully cloned, expressed and developed a purification process for the yeast (S. *cerevisiae*) CIA protein Cia1 from recombinant DNA in E. *coli*
- Taught 6 sections of general chemistry laboratory for engineering students

Washington State University Pullman, WA
Undergraduate Research Internship (REU) in Biochemistry, *June 2010 – August 2010*

- Expressed, purified and crystallized protein from recombinant DNA plasmids cloned into E. *coli*
- Purified protein using a variety of different high-pressure liquid chromatography (HPLC) columns and concentration techniques
- Successfully crystallized known environmental pollutant degradation enzymes, PcpB and FurX, which are utilized in the biodegradation pathway of pentachlorophenol and furfural respectively
- Published as a co-author in the journal Molecular Microbiology from work on FurX under the title: "Furfural reduction mechanism of a zinc-dependent alcohol dehydrogenase from *Cupriavidus* necator JMP134"