Omer A. Mahmoud

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**Education**

***Iowa State University***

Pursuing a bachelor’s degree in **Bioinformatics and Computational Biology**

**January 2013- present**

**Professional Experience**

**Intern Research Assistant**

**Iowa State University- Bioeconomy Institute**

**May 2016- present**

* Analyze Methylated by-products of bio-mass components. Tasks include running Mass Spectrometry, Fast Micro-Pyrolysis, and Gas Chromatography.
* Set up initial standard samples for building calibration curves and write standard operating protocols.

**Assistant Laboratory Technician**

**Iowa State University- Seed Science Center**

**October 2015- present**

* Run routine maintenance on all seed conditioning instruments and machines.
* Assist in laboratory workshops and class sessions.

**Cleaning Specialist**

**Clean Indeed Carpet Inc.**

**December 2011- present**

* Inspect residential and commercial carpets and insured proper cleaning procedures are followed.
* Complete regular maintenance work on cleaning equipment as needed, and direct the chemical extraction processes to insure cleaned carpets only maintain minimal chemical residues.

**Intern Laboratory Assistant**

**Iowa State University- Plant Science Institute**

**May 2015-October2015**

* Helped establish a first of its kind High-Throughput phenotype project. Tasks included but not limited to, modifying sensors, materials, and data transfer systems to drive successful observational analysis throughout the summer.
* Learned and implemented the protocols for large data retrieval from 100+ field monitoring systems on daily basis.

**Intern Research Assistant**

**Iowa State University- Department of Chemical and Biological Engineering**

**September 2013- December 2014**

* Used my knowledge of chemistry, material interactions, and viral particles to establish a novel bacteriophage based antimicrobial treatment compound.
* Developed and modified protocols for the detection of viral particles, pathogen recognition and delivery.

**Undergraduate Laboratory Assistant**

**Iowa State University- Department of Plant Pathology and Microbiology**

**January 2012- December 2012**

* Tasks included planting a wide variety of plants that served as primary susceptible hosts for cyst nematodes, and subsequently collected and prepared diseased plant material for further lab analysis.
* Completed all maintenance and cleaning requirements on a weekly basis to satisfy Environmental Health and Safety guidelines.