

# Shoham Band

Contact Information: ShohamBand@gmail.com

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## Education:

University of Illinois, Champaign-Urbana, IL

May 2016

- Bachelor of Science, Integrative Biology with Distinction

## Work and Research Experience:

Department of Food Science and Human Nutrition

February 2017 - Present

*Academic Hourly, Laboratory Technician*

- Performed various cell culture assays with breast cancer cell lines MCF7, T47D, HEPG2, GFP cells, passaged cells, prepared media, and cryopreservation.
- Proficient in Protein Isolation, Western Blot, RNA Isolation, RT-PCR, qPCR, Flow Cytometry, Seahorse Cell Phenotype Characterization, and Cell Proliferation assays.
- Ordered and stocked lab equipment and chemicals.
- Entered and analyzed data from experiments using Excel, Graph Pad, FCS express, and Adobe Illustrator.
- Trained high school interns, undergraduates, masters and PhD students.
- Wrote a literature review on mechanisms of obesity and breast cancer in postmenopausal women.

Illini Studio, Champaign, IL

October 2016 - Present

*Production Assistant*

- Edited and enhanced photographs using Adobe Photoshop.
- Prepared customer orders for delivery.
- Inventoried and ordered supplies for the studio.

Department of Plant Biology, Prof. Katy Heath Lab

January 2015- June 2016

*Undergraduate Research Assistant*

- Collected rhizobia nodules from plant roots using sterile techniques in order to transfer for growth on to petri dishes as per product protocol.
- Assisted in implementing multiple projects under the guidance of graduate students.
- Grew and maintained over 600 individual plants used for various lab projects.

*Distinction Research Project*

- Attended and collaborated in the development of a research project.
- Analyzed the effects of simulated herbivory on the tripartite mutualism between legumes, rhizobia, and arbuscular mycorrhizal fungus.
- Presented findings at multiple research conferences.

Functional Genomics Lab, Urbana, IL

August 2014 – May 2015

*Research Assistant*

- Quantified DNA samples using Qubit 2.0 and Nanodrop.
- Followed specific protocols in order to complete task under a strict deadline.

Sinai Temple, Champaign, IL

October 2013 – May 2016

*Administrative Assistant*

- Created Microsoft Word documents and Excel reports.
- Collaborated with temple director to coordinate events for temple members.
- Managed phone calls, emails, messages along with other office duties such as printing and copying documents.

**Awards and Volunteering:**

School of Integrative Biology A. B. Hayes Award.	Summer 2015
Mentored an underclassman interested in undergraduate research.	Spring 2015

**Conferences:**

Midwest Ecology and Evolution Conference	Oxford, Ohio	Spring 2016
School of Integrative Biology Symposium	Urbana, Illinois	Spring 2016

**Skills and Languages:**

Proficient in Microsoft Office, Micro-pipetting, RT-PCR, qPCR, Western Blot, Cell Proliferation, RNA isolation, Protein isolation, Qubit 2.0, Nanodrop, Gel Electrophoresis, Flow Cytometry, Cell Culture, Seahorse Cell Phenotype Characterization, Conversational Hebrew, Mycology, Entomology, Plant Biology and Breast Cancer Biology.

**Courses:**

Ecology, Evolution, Anatomy and Physiology, Genetics, Entomology, Ecological Genetics, Plant Biology, Ecology and Human Health, Field Ecology, Animal Behavior.