

# Abshir Farhan

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Minneapolis, Minnesota 55455

555-123-4567  
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## EDUCATION

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### University of Minnesota-Twin Cities

Bachelor of Science in Biochemistry

GPA: 3.1

Minneapolis, MN  
Expected May 2016

### Normandale Community College

**Coursework Included:** General Chemistry I & II, Physics I & II, Calculus I & II, Statistics

Bloomington, MN  
September 2011- May 2013

## SKILLS

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**Laboratory Techniques:** PCR, DNA Isolation & Purification, Restriction Digests, DNA Cloning with Plasmids, Yeast & Bacterial Transformation, Bacterial Isolation & Identification, Gram Staining, Microscopy, Gel Electrophoresis, Western Blotting, Spectrophotometry, Chromatography, IR Spectroscopy, Mass Spectroscopy

**Computer Software Programs:** Basic Skills in Microsoft Office Suite, R Statistical Analysis Software, PyMOL Molecular Modeling and Visualization Software

## RESEARCH EXPERIENCE

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### Thomas Lab, University of Minnesota- Twin Cities

Undergraduate Research Assistant

Faculty Mentor: David Thomas, Ph.D., Department of Biochemistry, Molecular Biology, and Biophysics

Minneapolis, MN  
January 2015-Present

- Engage in current research on the effects of cardiomyopathy mutations on the structural dynamics of the muscle protein myosin and collaborate with research mentor and other lab members on a daily basis to modify and plan out experiments
- Engineer mutations into the gene sequence for myosin cloned into a plasmid vector, and observe the results on myosin's interactions with actin and nucleotide by Electron Paramagnetic Resonance spectroscopy (EPR)
- Perform techniques in site-directed mutagenesis using PCR, DNA plasmid transformations in *E. coli* and *Dictyostelium*, DNA extraction, restriction digests and ligation reactions, and gel electrophoresis
- Awarded grant funds for research over Summer 2015 through the Undergraduate Research Opportunity Program (UROP)
- Designed and created poster for the University of Minnesota's Digital Conservancy explaining and summarizing research

### Howard Hughes Medical Institute (HHMI) Program, University of Minnesota-Twin Cities

Undergraduate Researcher

Faculty Mentor: David Moeller, Ph.D., Department of Plant Biology

Minneapolis, MN  
Spring Semester 2013

- Participated in current research studying differential pollen tube growth as a reproductive barrier to cross-fertilization between *Clarkia xantiana* flower subspecies
- Performed light microscopy for measurement and dissection of plant pollen tubes and styles
- Designed and presented a poster titled: Differential Pollen Tube Growth as a Reproductive Barrier to Cross-Fertilization Between *Clarkia xantiana* Flower Subspecies for HHMI research poster symposium

## WORK EXPERIENCE

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### Menards

Warehouse Employee

- Retrieve products to fill orders and package and ship products to their destination
- Assist in maintenance of warehouse and shipping stations, both cleaning and stocking received products
- Demonstrate ability to work as a team with other warehouse members while giving great attention to detail in order to ensure accuracy in product shipments

St Paul, MN  
June 2011-Present