

# Aisha Malik

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## Education

**University of Illinois at Urbana-Champaign**

**Bachelor of Science in Agricultural and Biological Engineering**

**May 2018**

Minor in Computer Science

**Relevant Coursework:** Engineering (Air Quality, Land and Water Resources, Soil and Water, Bioenvironmental, Biological, Food and Bioprocess, Environmental, Machine Systems), Non-Point Source Pollution Processes and Modeling, Renewable Energy Systems, Ecosystem Management, Fish and Wildlife Ecology, Thermodynamics, Field Robotics, Project Management, Fluid Mechanics, Electronic Circuits

## Experience

**USDA- Natural Resources Conservation Service**

**Marion, IL, Champaign, IL**

**Engineering Pathways Intern**

**May 2017 – Present**

- Designed systems and structures to promote environmental conservation and preservation on AutoCAD Civil 3D
- Collected topographic, cross section, and profile data using Trimble GPS, hand level, laser level, and total station
- Projects included grass waterways, stream crossings, wetland restorations, terraces, culvert pipelines

**Laboratory for Soybean Disease Research**

**Urbana, IL**

**Research Assistant**

**March 2016 – May 2017**

- Suction trap network: monitored soybean and cereal aphids and detected invasive species throughout Midwest
- Soybean thrips' research: screened resistance of soybean genotypes and cultivars to soybean thrips by rearing infected thrips and running tests
- Soybean aphids' research: studied inheritance of virulence on aphids and screen resistance to soybean aphids' field population to discover new biotypes or check phenotypic response to different soybean isolines with Rag genes and combination

**Ha Lab at the University of Illinois Institute of Genomic Biology**

**Urbana, IL**

**Research Assistant**

**August 2015 - March 2016**

- Managed lab inventory and lab in general
- Maintained and replicated cell cultures for studies in single molecule nanometry
- Disposed lab's chemical and biological waste

## Skills

Language: Java, Matlab, Python

Software: AutoCAD, Autodesk Inventor, Civil3D, ArcGIS, FluidSIM, HEC-RAS

Field: Surveying/field work using Trimble GPS, hand levels, laser levels, and total stations

Others: Urdu, Hindi, Mandarin Chinese

## Activities

- Fountain Wars in American Society of Agricultural and Biological Engineering Design Co-Lead and Treasurer **December 2015 – May 2016**
- American Society of Agricultural and Biological Engineers Community Service Chair **August 2014 – May 2015**