

# MATTHEW W. DAVIS

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## EDUCATION

### **Bachelor of Science in Biotechnology**

*Expected Dec. 2020*

University of Florida, Gainesville, FL

Current Grade Point Average: 3.74/4.0

College of Agricultural and Life Sciences Deans List

*Fall 2017*

### **High School Diploma – Scholar with Distinction**

*May 2016*

Oviedo High School, Oviedo, FL

Unweighted Grade Point Average: 3.99/4.0

Academic All-American

*May 2016*

## EXPERIENCE

### **Lab Technician**, Blueberry Breeding Program, University of Florida

*Jan. 2019-Present*

Investigated new techniques to improve DNA purity from extraction

Created new protocols in accordance with research

Extracted over 150 samples of DNA from various blueberry cultivars

Executed over 150 Polymerase Chain Reactions to amplify DNA yields

Collaborated with the Interdisciplinary Center for Biotechnology Research (ICBR) to analyze genetic data

Engaged in various fruit quality analysis assays to discern blueberry weight, visual appeal, firmness, juice content, sugar content, and percent acidity

Instructed others in weighing, appraising, extracting, and titrating techniques

Constructed new methods to increase efficiency while ensuring accuracy

Practiced tissue culture technique

Trained in CRISPR-Cas9 gene editing tool

### **Entomology Intern**, Walt Disney World

*Jun. 2018-Jan. 2019*

Propagated a consistent population of at least 432 lima bean plants, adding more based on need

Collected pest samples to identify pest issues

Learned proper harvesting and produce logging/tracking techniques

Scouted over 150 different varieties of plants throughout 2 acres of production and research greenhouse space weekly

Maintained a constant healthy rearing population of leaf miner flies and parasitoid wasps for biological control

Implemented multiple IPM control measures such as mechanical, cultural, and biological controls

Introduced various beneficial insects and inspected beneficial insect success rate

Educated approximately 100 tour groups on hydroponic growing methods and sustainability in agriculture

Served in a guest facing sales role promoting the tour and agricultural products

Identified various greenhouse pest insects and suggested possible control techniques

### **Laboratory Assistant**, Insect Physiology Lab, University of Florida

*Dec. 2017-Jun. 2018*

Performed organismal biological testing

Collected and logged data accurately and in a timely manner

Proficient in scientific data collection programs, such as ImageJ

### **Mosquito Rearing**, Urban Entomology Department, University of Florida

*Oct. 2017-Nov. 2017*

Acquired experience in mosquito rearing techniques

Actively reared mosquitoes through all life cycle stages

### **Certified Biotechnician**, University of Florida

*May 2016*

Proficient with PCR, Gel Electrophoresis, Western Blot Testing, and a variety of other molecular techniques

Employed critical thinking skills to determine appropriate tests for various laboratory situations

### **University of Florida Men's Lacrosse**, MCLA

*Aug. 2016-Mar. 2019*

Started as a defensive player and leader

Served the team as Secretary and Vice President

Selected to South Eastern Lacrosse Conference all-conference team

**Guest Service Representative/ Acting Store Front Manager**, Target

*May 2017-Aug. 2017*

Quickly adapted to situations to provide a positive experience for all guests while assisting cashiers

Interacted with guests to address any instore or online issues they may have encountered

Assessed individual situations in order to determine the proper company response

**Junior Varsity Coach**, Club of Oviedo Lacrosse

*May 2016-Jul. 2016*

Collaborated with fellow coaches in order to design the most effective practice plan for the team

Supervised 30 high school students at weekly practices and tournaments

Instilled key values, such as sportsmanship and hard work

**Special Assistant**, Oviedo Emergency Room

*Jul. 2015-Jan. 2016*

Maintained an organized workspace by filing sensitive patient information, maintaining inventory, restocking supplies, and overseeing the reception area

Assessed patient needs and help determined appropriate course of action using critical thinking skills in a fast-paced environment alongside hospital staff

Provided customized care to ensure the most comfortable patient experience

## LEADERSHIP

**Executive Board Member**, University of Florida Men's Lacrosse Team

*Jun. 2017-Mar. 2019*

Operated a \$100,000 budget

Served as Secretary and Vice President

Organized cross-country trips

Created season schedules

Performed liaison duties between the University of Florida and the team

Interviewed and hired coaching staff

**Captain**, Varsity Lacrosse Team

*Jan. 2016-May 2016*

Oviedo FL-Oviedo High School

Vocal leader for teammates

Connected the team with the coaching staff

Resolved internal conflicts

**Captain**, Varsity Wrestling Team

*Oct. 2015-Jan. 2016*

Oviedo FL-Oviedo High School

Collaborated with the coaching staff to create practice plans for the team

## AWARDS AND AFFILIATIONS

**Member**, Claudia M. Nelson Chapter of National Honor Society

*Feb. 2014-May 2016*

**Board Member**, Oviedo High School Student Government Association

*Aug. 2014-May 2015*

**Member**, BETA Club

*Aug. 2013-May 2014*

**Micropipetting Award**, University of South Florida STEM Academy

*Jul. 2015*

**Athlete of the Year**, Oviedo High School

*May 2016*

**Academic All-American**, US Lacrosse

*May 2016*

**Second Team All-Conference**, Seminole Athletic Conference

*May 2016*

**Academic Scholar Award**, Oviedo High School Varsity Lacrosse

*May 2016*

**Most Valuable Player**, Oviedo High School Varsity Lacrosse

*May 2016*

**Academic Scholar Player**, Oviedo High School Varsity Wrestling

*Mar. 2016*

**Most Valuable Player**, Oviedo High School Varsity Wrestling

*Mar. 2016*

## SPECIAL SKILLS

**Operated Commercial Vehicles**, Walt Disney World

*Jun. 2018-Jan. 2019*

**Certified Pesticide Handler**, United States Environmental Protection Agency

*Oct. 2018*

**Micropipetting Award**, University of South Florida STEM Academy

*Jul. 2015*

**Insect Rearing**, University of Florida, Walt Disney World

*One Year Total*

