

## GRADUATE RESEARCH ASSISTANT

### Summary

Dedicated professional with excellent technical, analytical and communication skills demonstrated in ten years of experience in the agricultural sector, specifically in the Research and Development division with an extensive knowledge of Biological control and identification of insect in the field of Entomology

### Highlights

Background in biological control using member from the Coleopteran family of insect	Team player
Area wide Surveys and data collection for research	Expert in data analysis
	Data presentation
	Experimental design/implementation

### Accomplishments

Successfully determine the biology, reproduction and the effect of chemicals on the *Thalassa montezumae*, a predatory beetle of the new invasive scale insect *Phalacroccoccus howertoni* in South Florida.

Integrated Pest Management Workshop Identification of Scales Mealybugs and Natural enemies.

Identification of Mites of economic importance to the Caribbean and their Natural enemies

Training Seminar on Management of Protected Cultivation Insect.

Identification of Nematodes for Professional Consultants

Green house training course.

### Experience

Company Name City , State GRADUATE RESEARCH ASSISTANT 01/2013 to 12/2015

- Assist with various research project in the Center of Biological control lab.
- Developing a potential biological control for Croton Scales (*Phalacroccoccus howertoni*).
- Maintain culture of Croton scales and *Thalassa montezumae* under green house and laboratory conditions,

Company Name City , State PLANT PROTECTION OFFICER - Entomology 10/2011 to 12/2012

- Rear Parasitoids wasp ( *Anagyrus kamali* ) and release in areas affected by the Pink Hibiscus Mealy bug ( *Maconellicoccus hirsutus* ) with 95% success rate and determined parasitism levels at each site.
- Record and analyze data
- Maintain cultures of Pink Hibiscus Mealybug and *Anagyrus kamali* at rearing facility.
- Develop solutions for pest problems in yam (*Dioscorea* spp.) in Jamaica Establish and conduct field evaluations with treatments against yam nematodes.
- Develop Citrus Greening Management Programme in Jamaica in collaboration with Food and Agriculture Organization and Government of Jamaica Components.
- Assist in the Island wide survey for incidence of citrus greening and parasitism levels of *Tamarixia radiata* .
- Assist the monitoring programme for the Area-wide Integrated Management Systems (AIMS) for Citrus greening in citrus orchards.
- Developed management program for the Beet Army Worm (*Spodoptera exigua* ) and monitoring of farms in affected parishes.
- Establish & maintain Beet Army Worm culture in the laboratory.
- Conduct insecticide efficacy trial.
- Implement Integrated Pest Management of major pests of crops under Protective Cultivation in Jamaica
- Data generated on temperature, humidity and pest status in greenhouse crop.

Company Name City , State FIELD AND LAB RESEARCH ASSISTANT 12/2002 to 10/2011

- Received diagnostic samples from extension officers and farmers.
- Prepared samples for diagnostics.
- Identification of insect specimen in the plant clinic
- Reared and preserved specimens as necessary.
- Established experimental plots.
- Visited field for prescribed observations and data collection as was set out in proposals.
- Monitored on and off station experimental plots for infestations.
- Maintained inventory list, materials and lab space.
- Worked on all research projects in the unit.

- Assisted in Crop and Plant Protection Unit
- Integrated Pest Management Systems developing on several crops threshold base pesticides.
- Population dynamic study on Red Palm Mites and Broad Mites.

#### Education

Master of Science : Entomology - Qualifying 2015 Florida Agricultural & Mechanical University , City , State , United States

Bachelor of Science : Environmental Science 2011 Knox Community College , City , Jamaica

Associate of Science : General Agriculture 2006 College of Agriculture Science & Education , City , Jamaica

#### Affiliations

Entomological Society of America (ESA)

Florida Entomological Society

Florida Agricultural & Mechanical University ESA debate team

Minorities in Agriculture, Natural Resources and Related Sciences (MANNRS)

#### Awards & Publications

Reuben Capelouto Foundation and William L.Peters Memorial scholarship awardee 2013-2014

2014. Monsanto 1890 Student Leadership Event participant ,St.Louis Missouri

2014. Mentoring at Purdue Summer Scholarship Program participant, West Lafayette, Indiana.

2014. ESA(Entomological Society of America). Annual Meeting. Portland, Oregon. Developing a Biological Control Measure for the Management of an Invasive Scale Insect, *Phalacroccoccus howertoni* (Hemiptera,Coccidae) in South Florida "Published Abstract.

2014. ESA (Entomological Society of America). Annual Meeting. Portland, Oregon. "What is the single best tool to reduce malaria cases throughout the world?" Published Article

#### Skills

Data collection, Maintain inventory, Statistical Analysis, Prepare samples

Microsoft office, Statistical Analysis Software (SAS)