Ketsira Pierre

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EDUCATION

August 2020 - present	University of Florida – Gainesville, FL Masters Plant Pathology Advisors: Dr. Shouan Zhang, Dr. Jeff Jones
August 2019	University of Central Florida – Orlando, FL Bachelor of Science, Environmental Studies - Honors Minor, Health Sciences Thesis: Effects of Zinc Nanoparticles on Tomato Plants
EXPERIENCE 05/2017, 05/2018	 Global Brigades Bridager Division of Medical Brigades, University of Central Florida – Nicaragua Provided care for over 800 patients in three days in 2017 and over 1,000 patients in 2018 Set up medical clinics containing vaccinations, diagnosticians, optometry, gynecology, and pharmacy in underserved rural communities in Mina de la India and Samulali Nicaragua Partnered with doctors to treat patients and give the basic hygiene necessities Took patients vital signs and conducted patient assessments for diagnosticians Collected and organized all patient assessments, diagnoses, and medication into programs that will cut down time
03/2018-07/2019	 Lead Garden Assistant Wellness and Health Promotional Services University of Central Florida – Orlando, FL Supervisor: Jonathan Carr Responsible for growing plants and maintaining 17 hydroponic towers and 2 gardens throughout UCF Partnered with Knights Pantry to offer healthy, fresh and organic crops from our gardens and towers to students at no charge Partnership with Lucky's market for food recovery and redistribution to UCF students and faculty after sorting – recover about 200 pounds of food a week Work with the Creative School for Children to educate the children on plants, their importance and how to grow and care for them Lead volunteer shift of UCF students in education and maintenance of gardens Lead garden workshops educating students about our objectives and hydroponic towers and their benefits. Run events using plants and knowledge for students during finals and cooking demos Research aid: collected lettuce sample from hydroponics and tested pH

• Trained in mule, gator, and trailer

01/2019-05/2019	 Capstone Research University of Central Florida Housekeeping & Recycling Services IDS 4893 Capstone Experience in Environmental Studies University of Central Florida – Orlando, FL Coordinator: Richard Plate, Ph.D & Keith Krueger Worked with the Housekeeping & Recycling Services department to assess recycling diversion rate at UCF in hopes of making the campus more sustainable Worked in teams to sort through waste bins (recycling and landfill) Completed Citi Training for Human Subjects and Behavioral Research Used GIS to update map of bin locations
08/2018-Present	Independent Undergraduate Research
	 University of Central Florida Materials Innovation for Sustainable Agriculture Nanoscience Technology Center & Department of Chemistry University of Central Florida – Orlando, FL Committee Chair: Swadeshmukul Santra, Ph.D Committee Member: Maria Campos Responsible for growing and maintaining tomato plants used for testing Nano- zinc particles Created experimental for testing the effects of Nano-zinc on tomato plants Observed and recorded differences in plant yield, size, roots and shoots, plant area Used Atomic Absorption Spectroscopy to characterize metals in plant soil Performed lab experiments and soil digestion EHS certified in Laboratory and Biological Safety
05/2018	 Research Leader Global Brigades Women's Health Research in Nicaragua University of Central Florida Global Medical Brigades Medical Brigade – Samulali, Nicaragua Coordinator: Olivia Randall-Kosich Project to assess and provide sanitary products to girls and women in Samulali As part of a team, created a questionnaire for patients visiting gynecology station during a three-day medical clinic Asked patients if they wanted to participant in a survey to better understand how they were handling their menstruation Collected over 100 surveys Daired a year \$600 to married a survey for the survey in t

• Raised over \$600 to provide sanitary care products to girls and women in Samulali

PUBLICATION

Pierre, Ketsira, "The Effects of Zinc Nanofertilizers on Tomato Plants" (2019). Honors Undergraduate Theses. 566. https://stars.library.ucf.edu/honorstheses/566

CONFERENCE

Pierre, K; Effects of urea coated with Zinc Oxide Nanoparticles on Tomato Plants in Greenhouse. **Poster presented** at: 2019 International NanoFlorida Conference; November 2019; Tampa, FL.

CAMPUS INVOLVEMENT

• Global Medical Brigades

- Fundraising Director (2016-2018)
- Circle K International
 - Secretary (2016-2018)
 - Outstanding Secretary Award in Florida district (2018)
 - 100% Monthly Report Form Award
 - Member Recruitment and Retention committee
- Mid-Knight Mentors
 - Mentor to high school students
- YoungLife

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VOLUNTEER EXPERIENCE

- AdventHealth Volunteer (2018-Present)
 - Receive and organize diagnostic slides and wedges containing patient biopsy, pap smear, etc.
 - Send out slides and wedges requested by doctors for patients
- Give Kids the World (2017-2018)
 - Worked in castle operating magic pillow tree
 - Operated rides for villagers
 - Worked in cafeteria handling and distributing breakfast and lunch
- Clean the World (2016-2017)
 - Separate and organize hygiene products donated by various organizations and establishments
 - Sunday Knight Food Share with Volunteer UCF (2016-2017)
 - Cook and handout meals to the homeless in Downtown Orlando
- Arboretum (2016-2017)
 - Pulled weeds
 - Propagated plants
 - \circ Spread mulch on a path
 - Rebuilt garden beds