JUDY CARROTS

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EDUCATION

Oregon State University: Honors Degree, B.S. Bioresource Research **June 2018**
Minor: Chemistry, GPA: 3.81
Concentration: Biotechnology pest biology and management
Thesis: "The Population Decline and Pathogenicity of Potato *Spudus Delicious"*

PUBLICATIONS AND PAPERS

Spuds, A.B., **Carrots, J.C.** and Peas, I.A. Further elucidation of the host range of *Spudus Delicious*. 2018. Nematropica (Accepted for publication).

Gords, D., Jaworski, A., Celery, R., Oven, M. T., **Carrots, J.C.**, Tomato, M., Slaw, K., and Cabbage, P. On the formation of aza-ortho-quinone methides under hot-ish conditions: Cs_2CO_3 effect. 2017. The Journal of Organic Chemistry (Accepted for publication).

Peas, I.A., Cucumber, W.S., Walnut, N., Bok Choy, R.E., and **Carrots, J.C.** Pathogenicity of *Spudus Delicious* to potato (*Solanum tubstown*). Journal of Nematology (In preparation).

WORK EXPERIENCE

U.S. Dept. of Agriculture – Agricultural Research Service **2018 - Present**
Biological Science Technician

- Conduct research on plant-parasitic nematodes.
- Design and implement experiments on the management of potato cyst nematodes with the trap crop *Solanum sisymbriifolium*.
- Consult with and assist graduate students and other technicians with field sampling for nematodes and extraction and quantification of nematodes from soil and root samples.
- Conduct molecular (PCR and sequencing) and morphological (nematode measurements) work on a first report of *Paratrichodorous delicious* from Oregon.
- Assist laboratory members and supervisor with a diversity tasks as needed.

U.S. Dept. of Agriculture – Agricultural Research Service **2016 – 2018**
Student Research Assistant

- Planed and completed experiments on the pathogenicity to potato of *Spudus delicious,* a potato cyst nematode.

- Co-developed the design and implementation of experiments on the host range and population decline of *G. ellingtonae*.
- Assisted graduate students and technicians with extraction and quantification of nematodes from soil and root samples.
- Optimized the efficiency of different aspects of laboratory processes
- Responsible for maintaining the cleanliness of the laboratory space.

TEACHING EXPERIENCE

Oregon State University: Grading Assistant **2016-2017**
Physics 201, 202, 203

- Administered grading of homework assignments for all class sections for approximately 400 students, multiple times a term under strict deadline.
- Worked directly with supervisor to ensure provision of timely and helpful feedback on all graded assignments.

SERVICE

Sigma Delta Omega - Women's Science Sorority **2017 - 2018**
Vice President
As part of the group's leadership team, responsible for the organization, planning, and execution of social and philanthropy events (e.g., fundraisers to help fund STEM education programs for K-12 girls). Maintained accurate and current files pertaining to sorority activities.

Boys & Girls Club of Corvallis Volunteer **2015 - 2018**
Performed various jobs for major events hosted by the Boys and Girls Club. Monitored large groups of youth and assisted in the set up/take down of events and organization of various aspects of the club.

PRESENTATIONS

Celebrating Undergraduate Excellent Poster Presentation **May 2018**
"Insights into the Host Range, Jumping Ability, Population Decline and Pathogenicity of Potato *Spudus delicious*."

MEMBERSHIPS

Sigma Delta Omega, Women's Science Sorority	2014 - 2018
Gamma Sigma Delta, Agricultural Honor's Society	2016 - 2018
Order of Omega, Honor's Society for Greek Life	2017 - 2018
Organic Farmer's Club	2016 - 2018

KEY COURSEWORK

Plant Tissue Culture	Winter 2018
Plant Physiology	Winter 2018
Bacterial Molecular Genetics	Winter 2018
Introductory Plant Pathology	Fall 2017
Soil Science	Fall 2016

SKILLS

Greenhouse Production

- Potting and transplanting
- Soil and root sampling
- Innoculation of different plants with nematodes

Laboratory

- PCR
- Microscopy
- Extraction of nematodes from root and soil samples with methods such as Baermann funnel, decant sieveing, sugar floating and acetone extraction

General Research

- Experimental Design