

Tyler Seutter

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PO Box 374, Pine Grove Mills, PA, 16868

EDUCATION

Doctoral Student

Expected Spring 2028

The Pennsylvania State University, University Park, Pennsylvania

Advisor: Greg Krawczyk

Bachelor of Science in Biology, Minor in Chemistry

June 2021

Southern Oregon University, Ashland, Oregon

RESEARCH INTERESTS

Investigations to improve integrated pest management of tree fruit pests (insects) through a technological forward approach utilizing AI and other resources to improve modeling.

RESEARCH EXPERIENCE

Graduate Research Assistant

Aug 2023 - Present

Department of Entomology, The Pennsylvania State University

- Worked alongside and lead a team to construct experimental procedures and guided team to follow through to conduct quality research with a focus on flight phenology modeling on insects.
- Built a skillset to integrate AI and modern technology to improve integrated pest management of tree fruit pests such as Oriental Fruit Moth and Codling Moth
- Collaborated and coordinated with faculty, staff scientists, and fellow graduate students across departments.

Field Research Assistant

Apr 2023 – Aug 2023

Department of Entomology, The Pennsylvania State University

- Assisted in the ongoing research and projects within the lab which include: Field bioassays, scouting techniques, and equipment set up.
- Learned then instructed other field researchers on Pest Identification including Tree fruit damage symptoms

TEACHING AND MENTORING EXPERIENCE

Instructor, Management of Insect Pests of Ornamentals

Spring Semester 2024

Department of Entomology, The Pennsylvania State University

- Explained concepts focused on Integrated Pest Management and Pest ID using planned lessons, assignments and targeted discussions for 15 Junior and Senior students.

Teaching Assistant, Plagues Through the Ages

Spring Semester 2024

Department of Entomology, The Pennsylvania State University

- Guided the students in preparation and presentation of group discussion subjects
- Assisted in grading of student projects, assignments, and answering various questions about class topics

HONORS AND AWARDS

FMC Fellowship

2023

Professional Membership

Entomological Society of America

2023 - Present

PRESENTATIONS

ORAL PRESENTATIONS

Seutter, T., (2024, February). *Utilizing Precision Monitoring to Improve Integrated Pest Management*. Invited Guest Lecture, Class: "Tech and AI in Living Systems", State College, PA.

PROFESSIONAL EXPERIENCE

Toxicology Chemist at Private Lab

Aug 2022 – Apr 2023

Quasar Analytics, Colorado Springs, Colorado

- Performed standardized tests on organic and inorganic compounds to observe fundamental differences in properties.
- Provide Laboratory Maintenance on Liquid Chromatography and Mass Spec equipment.
- Technical knowledge of the machines and how to provide daily, monthly, and yearly Maintenance.
 - Worked with mixing reagents, calibrators, and controls.

Cytology Lab Technician Chemist at Private Lab

Mar 2022 - Aug 2022

Northwest Laboratory, Bellingham, Washington

- Performs primary screening of Gynecological and Non-gynecological samples. Renders interpretation and appropriate comments in accordance with established department reporting procedures.
- Assists at intra-operative procedures using remote telepathology o Construction of Slides of Biopsies during the procedures
 - Utilized formalin, RPMI, and other preservatives to transport specimens
 - Focus on professionalism, patient care, positive impact, and focus on efficiency.

Molecular Lab Technician Chemist at Private Lab

Sept 2021 - Mar 2022

Northwest Laboratory, Bellingham, Washington

- Perform RNA extractions for molecular testing & perform RT-PCR based molecular testing of a variety of assays
- Prepares reagents and other consumables for extraction procedures

TECHNICAL SKILLS

- Proficient in Statistical Analysis using R
- Intro proficiency in coding language C
- Experience running HPLC, Mass Spec, and maintenance depending on equipment being utilized

REFERENCES

Grzegorz Krawczyk, Research Professor, Advisor

Department of Entomology
The Pennsylvania State University
(717) – 778 - 4592, gzk13@psu.edu

Brian Stonelake, Previous Professor at Southern Oregon University

Statistics Professor
Skagit Valley College
Brian.stonelake@skagit.edu

Matt Lambert, Business Owner, Previous Employer

Rogue Rock Gym
(541) 245 – 2665, Matt@roguerockgym.com