

Christopher E. Nieters

Current Position: Graduate Research Assistant
University of Georgia
106 Riverbend Road
Athens, GA 30306

Contact: nietersc@gmail.com
linkedin.com/in/nietersc/
www.chrisnieters.com

Education: M.S. - Horticulture, 2022 - Current
University of Georgia, Athens, GA
Research topic: Hydroponic nutrient solution management in CEA

B.S. - Botany, 2017
University of Wyoming, Laramie, WY
Undergraduate research: Phenotyping below-ground *B. rapa* diversity and its influence on yield

Research Experience:

Plenty Unlimited Inc, 2018- 2022:

- Crop physiology assessments and crop phenotyping
- Light quality impacts on leafy greens and fruiting crops
- Establishment of strawberry CEA production systems
- Experimental planning, design, and execution
- Programming and statistical analysis

Ewers Plant Ecophysiology Lab, University of Wyoming, 2016-2018:

- Phenotyping *B. rapa* accessions for above and below ground carbon partitioning
- Quantifying PSII stress via chlorophyll a fluorescence using FluoPen/MultispeQ/LICOR 6400/Fluorcam
- Sterile preparation of non-structural carbohydrate/pigment extraction
- Diurnal CO₂ assimilation surveys of *B. vulgaris*
- Soil, stem, and leaf water potential quantification
- Remote sensing landscape scale vegetation (NDVI)

Wyoming Natural Diversity Database (WYNDD), University of Wyoming, 2015:

- Basic field collection methodology
- Locate and delineate remote wetland sites
- Characterize and assess soil for hydric markers
- Dataset management

Presentations:

American Society for Horticultural Science 2021. Denver, Colorado. Poster Presentation. *Cotyledon Competency in CEA: Light Response Curve Analysis across Emerging Mizuna Leaf Tissues*. Chris Nieters, Phoebe Killea, Alia Gonzales, Tessa Pocock.

American Geophysical Union 2017. New Orleans, Louisiana. Poster presentation. *Mind the Roots: Phenotyping Below-Ground Crop Diversity and Its Influence on Final Yield*. Christopher Nieters, Carmela Rosaria Guadagno, Sarah Lemli, Atefeh Hosseini and Brent E Ewers.

University of Wyoming Undergraduate Research Day 2017. Laramie, Wyoming. Poster presentation. *How can temporal dynamics in root growth improve model predictions of crop yield?* Christopher Nieters, Carmela R. Guadagno, Brent E. Ewers.

Academic Awards and Nominations:

2017. CWT Penland and Nyla Penland Memorial Scholarship for Outstanding Botany Senior Student
2017. Wilhelm G and Ragnhild Solheim Memorial Scholarship
2017. University of Wyoming Dean's List
2016. University of Wyoming President's List
2013 -2017. Hathaway Performance Scholarship

Academic Service & Volunteering:

- University of Wyoming Botany & Biology Club - 2015 - 2017
- Laramie Humane Society Dog Walker - 2018
- Plenty R-gonauts R Programming Learning Group - 2019
- Plenty Plant Physiology Discussion Group - 2020

References:

References available upon request