

Christopher E. Nieters

Current Position: Crop Physiology Research Associate
Plenty Unlimited Inc.
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Education: University of Wyoming, Laramie, WY
B.S. - Botany, 2017.
Undergraduate research: Phenotyping below-ground *Brassica rapa* diversity and its influence on yield.

Research Experience:

Plenty Unlimited Inc, 2018- present:

- Crop phenotyping via infrared gas analysis
- Light quality effect on leafy greens and fruiting crops
- Luminair characterization, light quality mapping/visualization
- HVAC & fertigation control systems
- Experimental 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 *Beta 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 Animal Shelter Dog Walker - 2018
- Plenty R-gonauts R Programming Learning Group - 2019
- Plenty Plant Physiology Discussion Group - 2020

References:

Available upon request