Dec. 2024

# TAYLOR N. SHERER

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## EDUCATION

Aug. 2024 – Present M.S. Environmental Horticulture
University of Florida - Gainesville, FL

Aug. 2019 – May 2023 B.S. Biological Sciences, Minor in Plant & Environmental Science
Clemson University - Clemson, SC

## RESEARCH EXPERIENCE

Aug. 2024 – Present PI: Dr. Ryan Klein – University of Florida – Environmental Horticulture
- Nursery stock comparison of Southern Live Oaks (*Quercus virginiana)*

Jan. 2022 – May 2023 PI: Dr. Matthew Koski – Clemson University – Biological Sciences
- Floral thermoregulation in the early spring wildflower (*Hexastylis arifolia*)

Jan. 2021 – Aug. 2022 PI: Dr. Sruthi Narayanan – Clemson University – Plant & Environmental Science
- Physiological characterization of upland cotton leaf shape isolines (*Gossypium hirsutum*)

## PUBLICATIONS

Dec. 2024 Spivey, W.W., St. Aime, R., **Sherer, T. N.**, Zimmerman, P., Kuraparthy, V., Narayanan, S. (2024). Physiological Characterization of Leaf-Shape Isolines of Upland Cotton. Agronomy Journal. (Accepted)

June 2024 **Sherer, T. N.**, Heiling, J. M., Koski, M. H. (2024). Floral thermal biology in relation to pollen thermal performance in an early spring flowering plant. Plant Biology, plb.13660. https://doi.org/10.1111/plb.13660

## POSTERS AND PRESENTATIONS

Sept. 2023 **Sherer T**., Heiling J., Koski M. Thermal Ecology of Southeastern *Hexastylis arifolia*. 50th Annual Southeastern Population Ecology and Evolutionary Genetics Conference, Sep 22-24, 2023, Pembroke, VA.

Apr. 2022 **Sherer T**., Zimmerman P., Tharp C., Terry A., Lin V., Cantrell V., Spivey WW., Kuraparthy V., and Narayanan S. Physiological characterization of cotton leaf shape isolines., Clemson University 17th Annual Focus on Creative Inquiry Forum, April 6-8, 2022. Clemson, SC.

Apr. 2022 **Sherer T**., Witman W., Gaskins G., Heiling J., Koski M. An investigation of thermoregulatory properties of the elusive *Hexastylis* flower., Clemson University 17th Annual Focus on Creative Inquiry Forum, April 6-8, 2022. Clemson, SC.

Nov. 2021 Burgess V., LaFave Q., Narayanan S., Rosebrock E., **Sherer T.**, Spivey, W., Zimmerman, P., & St Aime, R. (2021) Physiological Characterization of Cotton Leaf Shape Isolines. ASA, CSSA, SSSA International Annual Meeting, November 8, 2021. Salt Lake City, UT.

## WORK EXPERIENCE

Aug. 2024 – Present Graduate Research Assistant for University of Florida Environmental Horticulture Dept.

Supervisor: Dr. Ryan Klein

Aug. 2023 – July 2024 Laboratory specialist I (technician) for Clemson University's Biology Department
Supervisor: Dr. Matthew Koski

May 2022 – Aug. 2022 Undergraduate research intern for Clemson University's PES department
Supervisor: Dr. Sruthi Narayanan

## EXTENSION AND OUTREACH

Fall 2024 Graduate student panel Advisor: Dr Amethyst Merchant
- Provided undergraduate students insight into graduate school

Spring 2024 Clemson flower color community science project Advisor: Dr. Matthew Koski
- Engaging with community scientists in the Eastern US to assess flower color variation

Spring 2023 Outreach to improve mycological visibility in SC Advisor: Dr. Julia Kerrigan
- Educational outreach with elementary and college students

Spring 2022 4-H Junior Naturalist Program Advisor: Dr. Matthew Koski
- Educational outreach with children ages 8-13 at the SC Botanical Garden

Fall 2022 Invasive plant removal Advisor: Allison Kelly
- Volunteer work at the SC Botanical Garden

## SCHOLARSHIPS AND AWARDS

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| May 2023 | Cum Laude Latin Honors |
| Fall 2020 – Spring 2023 | President's List |
| Fall 2019 – Spring 2023 | South Carolina Palmetto Fellows Scholarship |
| Fall 2019 – Spring 2023 | Clemson Presidential Grant |
| Fall 2019 – Spring 2023 | Abney Foundation Endowed Scholarship |
| Fall 2019 | NSHSS Captain Planet Earth Day Scholarship |

## LEADERSHIP POSITIONS

Spring 2022 Clemson College Democrats – *Secretary*
- Managed record-keeping and organization of essential club information

Fall 2020 Phi Sigma Pi Honor Fraternity – *Beta Delta Chair*
- Served as liaison between the chapter and the incoming initiate class

## RELEVANT COURSEWORK

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| Fall 2024 | AGR 6932 - Ecosystem Services: TM & Practices | Grade received: A |
| Spring 2023 | BIOL 4460 - Plant Ecology | Grade received: A |
| Fall 2022 | PES 3350 - Agricultural Biotechnology | Grade received: A |
| Fall 2022 | BIOL 4250 - Mycology | Grade received: A |
| Spring 2022 | BIOL 4930 - Plants and humanity | Grade received: A |
| Fall 2021 | PES 2020 - Soils | Grade received: A |
| Fall 2021 | PES 4210 - Principals of field crop production | Grade received: A |
| Spring 2021 | BIOL 4010 - Plant physiology | Grade received: A |
| Fall 2020 | BIOL 3040/3080 - Biology of plants | Grade received: A |