

# Matthew Barnicki

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212 Highwood Dr, Knoxville TN 37920

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## Education

### University of Tennessee - Knoxville

August 2019 – Present

Expected graduation: December 2023

Current GPA: 3.62

*Pursuing:*

BS in Forestry

Concentration: Forest Resources Management

BS in Environmental & Soil Sciences

Concentration: Soil Science

### Dobyns-Bennett High School, Kingsport, TN

Graduated May 2019

GPA: 4.56

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## Experience

### University of Tennessee Tree Improvement Program, Knoxville, Tullahoma, & Grand Junction, TN

*Lead Student & Intern*

October 2019 – Present

- Work with plants: watering, weeding, transplanting, & field collection of plant material.
- Collect data (DBH, height; seedling height/stem diameter, acorn size, etc.) for tree improvement and oak planting research.
- Surveyed for five tree & shrub species in middle Tennessee on private and public land, to locate suitable scionwood sources for propagation and establishment of locally-adapted seed orchards to serve the state tree nursery (summer 2020).
- Collected, prepared, rooted, and transplanted cuttings of eastern hemlock, part of a project to preserve genetic diversity of the species in a seed orchard to serve future restoration efforts in East Tennessee.
- Surveyed for survivors of historical experimental TVA tree crop plantings near Norris Reservoir.

### US Forest Service, Cherokee & Nantahala National Forests, TN & NC

Official employer: University of Tennessee

*Intern*

August 2022

- Measured DBH, height, cankers, and competition in experimental plots evaluating growth and survival of American, Chinese, and hybrid chestnuts on national forest land.

**Private Institute for Climate Change Research (ICC), Santa Lucia, Escuintla, Guatemala**

*Intern*

May-July 2022

- Worked with forestry technicians to measure diameter and height of trees in a variety of land use types as part of a project to estimate carbon storage in trees in agricultural areas of south-central Guatemala.

**Clearwater-Potlatch Timber Protective Association (CPTPA), Orofino, ID**

*Wildland Firefighter*

June-August 2021

- Used hand tools and hoses to suppress wildfires during a busy fire season for the area.

**Thomas Hollow Nursery, Bristol, VA**

*Nursery Worker*

May-June 2021

- Weeded, watered, and re-potted containerized and ball-and-burlap nursery stock.

**Southern Appalachian Highlands Conservancy (SAHC), Roan Mountain, TN**

July 2019

*Intern*

- Used blade weed-eater to cut back brambles to maintain grassy bald habitat at high elevation, and to improve habitat for the yellow-winged warbler at lower elevation.
- Used a handheld GPS unit to assist mapping of habitat management area.

**Appy Trails, LLC, Charles Town, WV**

June 2019

*Hemp Farm Hand*

- Operated a tractor with a drag to break up soil clods, and a golf cart-drawn water tank and sprayer to water seedlings.
- Walked behind tractor-drawn seed-tape planting machine to correct thousands of planting flaws.

**Landscaping Consultant (self-employed), Kingsport, TN**

Summer 2018 & 2019; intermittently thereafter

- Consulted with landowners to meet landscape objectives and provide plant advice.
- Provided services including pruning, mulching, weeding, planting, & brush collection.
- Used hand and power tools, including chainsaw.

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## Other

### College

- National Merit Scholarship and Distinguished Tennessean Award recipient
- Chancellor's Honors Program

### High School

#### **Planter Box Project**

- Helped design and plant a multi-planter box garden featuring native and edible plants for a local nonprofit, Bellafina Chocolates.

#### **Pulaski Club**

- Attended prescribed burns, took online FFII training courses, and became certified by the VA Dept. of Forestry.

#### **Environmental Club**

- Co-president; helped organize cleanups and hikes.

**Science Olympiad**

- Won medals in events including forestry, entomology, water quality, dynamic planet, and robotics.

**Tennessee Governor's School for the Agricultural Sciences, Martin, TN**

- Attended numerous lectures and field trips relating to agriculture in Tennessee.

**Kentucky Forest Leadership Program**

- Early exposure to careers in forestry and wildlife.

**NC State AgDiscovery Program**

- Early exposure to careers in agriculture.