



Tyler James Pardun

120 David L. Boren Blvd. Norman, Oklahoma · tyler.pardun@noaa.gov

Research Interests

Convective boundary layer characteristics, supercell dynamics, QLCS tornadogenesis, and storm-scale modeling

Education

08/2017–
05/2021

B.S. in Meteorology, University of Oklahoma, Norman, OK

The observed and simulated analysis of supercellular demise from 15 June 2019 over Vega, Texas; Cool Season Environmental Differences Related to Convective Mode Using High-Resolution Boundary Layer Profilers in the Southeastern United States

08/2021–
05/2023

M.S. in Meteorology, University of Oklahoma, Norman, OK

The investigation of pre-tornadic and tornadic QLCS storms using operational radar products from Multi-Radar/Multi-Sensor Systems

Experience

08/2019–
05/2021

Undergraduate Researcher, University of Oklahoma, NSSL / CIMMS

Collaborated with NSSL Scientists to investigate the demise of a supercell thunderstorm using observations collected from TORUS and numerical modeling. Presented this work via Keynote at the 101st AMS annual meeting in January of 2021

11/2019–
08/2021

Undergraduate Research Assistant, University of Oklahoma, CIMMS

Lead research to investigate the convective boundary layer evolution in different convective mode environments in the southeastern United States. Presented a poster on this work at the 101st AMS Annual Meeting in January 2021

05/2021–
current

Graduate Research Assistant, University of Oklahoma, NOAA, NSSL

Using Multi-Radar Multi-Sensor Systems to investigate pre-tornadic and tornadic QLCS thunderstorms

Activities

05/2019–
06/2022

TORUS Field Campaign, University of Oklahoma, NOAA, NSSL, CIMMS

Assisted in spotting deployment site locations for the NOXP mobile Doppler radar in 2019 and operated Probe 2 in 2021.

03/2022–
04/2022

PERiLS Field Campaign, University of Oklahoma, NOAA, NSSL, CIWRO

Assisted with mobile Doppler LiDAR and NOXP deployments in the southeastern United States.

12/2020–
current

BLISS Research Group, University of Oklahoma, National Weather Center

Member of the Boundary Layer Integrated Sensing and Sampling group to collaborate and innovate new ways to sample and model boundary layer flows with other researchers.

Talks and Presentations

- Jan 2021 **American Meteorological Society Annual Meeting**, Virtual Poster, CIMMS
Cool Season Environmental Differences Related to Convective Mode Using High-Resolution Boundary Layer Profilers in the Southeastern United States
- Jan 2021 **American Meteorological Society Annual Meeting**, Virtual Keynote, NOAA/NSSL
The observed and simulated analysis of supercellular demise from 15 June 2019.
- Nov 2021 **Vernon Hills High School**, Vernon Hills, Illinois
Spoke about math and science applications to fundamental topics of Meteorology at the High School level.
- Oct 2022 **30th Conference on Severe Local Storms**, Santa Fe, New Mexico
Spoke on using products derived from Multi-Radar/Multi-Sensor Systems to anticipate pre-tornadic QLCS storms.