



**M.S./Ph.D. Student Opportunity:
“PICCOLO: Process Investigation
of Clouds and Convective
Organization over the atLantic
Ocean”**



School of Meteorology, University of Oklahoma
Convective Storm Dynamics Research Group



Dr. James Ruppert is recruiting to fill a new GRA position (either at M.S. or Ph.D. level) to start in Fall 2024 to investigate the nature, governing mechanisms, and impact of mesoscale organization of precipitating deep convection in the Atlantic ITCZ. This position pertains to the NSF-funded PICCOLO field campaign in the tropical Atlantic Ocean in Aug-Sept 2024, which is a component of the international *OR*ganized *CO*nvection *E*xperiments in the *T*Ropical Atlantic ([ORCESTR](#)) field campaign.

The GRA will be expected to spend approximately one month in the field to support data collection. Since this campaign begins in Aug, a unique stipulation for this position is the need to start in July 2024 or sooner. Remote arrangements are possible prior to the field campaign. In addition to supporting data collection, the GRA will be expected to support research analyzing observational data and conducting and analyzing numerical model simulations using the WRF-ARW model and/or other models. Key scientific foci in this work will include cloud–radiation interaction, the diurnal cycle, and convective upscale development in the context of the Atlantic ITCZ.

The GRA must demonstrate an ability to work proficiently both independently and in a team setting. Preferred qualifications include experience with computer programming (especially Python), convective-scale dynamics, tropical meteorology, and strong scientific writing and oral communication skills. Prior experience and/or strong interest in numerical modeling is also highly valued. The student will be expected to travel to present results at professional conferences and to lead-author manuscripts for publication in peer-reviewed journals.

Interested applicants should apply to OU [School of Meteorology](#) and contact Dr. James Ruppert (jruppert@ou.edu). Please include a resumé and statement of interest.

