

# GRADUATE STUDENT POSITIONS AVAILABLE

Dr. Yongjian Qiu, Department of Biology, University of Mississippi

## Investigating the mechanisms of light and thermal responses in plants

The Qiu laboratory in the Department of Biology at the University of Mississippi in Oxford, MS is seeking two highly motivated graduate students to investigate the fundamental question of how plants sense and respond to the ever-changing light and temperature environment.

Focusing on the signaling pathway initiated by phytochromes, which are red/far-red photoreceptors and thermosensors in plants, we seek to understand the mechanisms underlying the photoperiodic regulation of photomorphogenesis and thermomorphogenesis.

We combine genetic, molecular, cellular, biochemical, and bioinformatic approaches to answer



some of the specific research questions: How do phytochromes control the stability and activity of thermoresponsive transcription factors? How do various photoreceptors coordinate with each other in response to temperature fluctuations? How are local and systemic signals integrated during thermosensory growth?

If you are interested in joining our lab as a PhD student, please contact Dr. Yongjian Qiu directly at [yqiu@olemiss.edu](mailto:yqiu@olemiss.edu).

- More information about the laboratory can be found at <https://phytoresilience.org/>.
- More information about the application process can be found at <https://phytoresilience.org/join-us/>.
- Additional positions, including a rotation program, are also available in our interdisciplinary graduate program in the Department of Biology at the University of Mississippi. For more information about our graduate program including rotations please see <https://biology.olemiss.edu>.
- For regular Fall admission, application materials must be received by February 1<sup>st</sup>.