Zhao Nano Lab

UNIVERSITY OF GEORGIA
Department of Physics & Astronomy



Educational Innovation

Smartphone-based experiments, innovative teaching tools, and AI-supported physics education.

Future Undergraduate Research Projects

01 **SmartIPL & Low-Cost Laboratories**
Design smartphone-based experiments in mechanics, thermal physics, waves, fluids, and optics.

02 **Electronics, Circuits & Engineering**
Build affordable sensor interfaces, circuits, and practical instrumentation for student labs.

03 **AI-Assisted Teaching & Assessment**
Explore learning tools for writing feedback, homework analysis, and personalized practice.

04 **Classroom Implementation & Standards**
Develop lab manuals, instructional videos, rubrics, and reproducible teaching activities.

Who Should Apply?

Undergraduates in physics, engineering, computer science, chemistry, education, or related fields. Curiosity and willingness to learn matter most.

What You Can Gain

Hands-on project experience; coding, instrumentation, and communication skills; collaborative research; opportunities for presentations and publications.

INTERESTED IN JOINING US?

Email a brief introduction, your interests, and your availability.

zhaoy@uga.edu

JOIN OUR TEAM →