Zhao Nano Lab

Department of Physics and Astronomy
University of Georgia

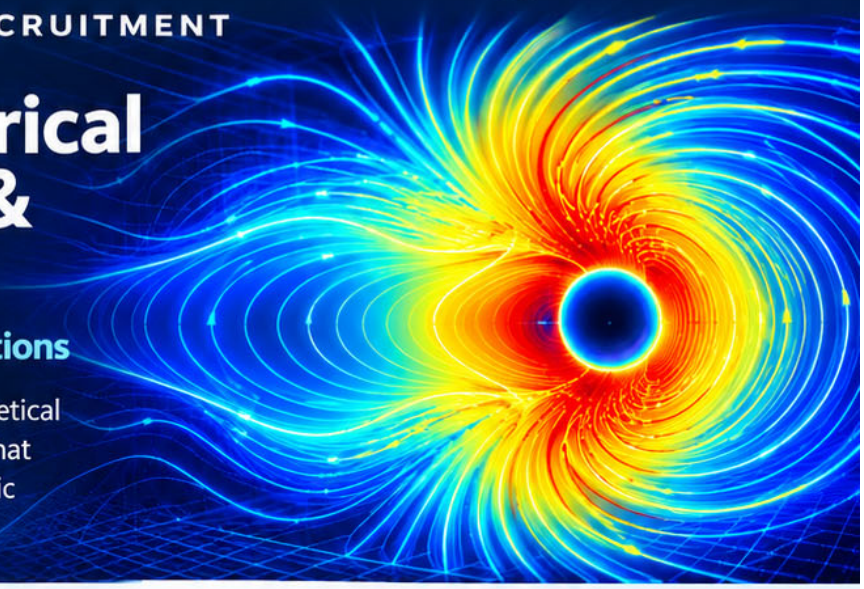
UNIVERSITY OF GEORGIA

GRADUATE STUDENT RECRUITMENT

Theory, Numerical Calculations & Simulations

Modeling Light–Matter Interactions

Join the Zhao Nano Lab to develop theoretical models and computational simulations that reveal, design, and optimize nanophotonic materials and optical devices.

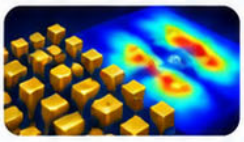


Future Research Projects



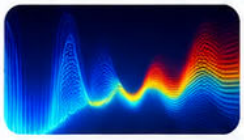
Electromagnetic Modeling

Light–matter interactions in nanostructures (e.g., FDTD, FEM, RCWA)



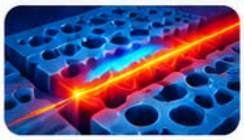
Optical Device Design

Modeling and optimization of metasurfaces, plasmonic devices, and sensors



Computational Spectroscopy

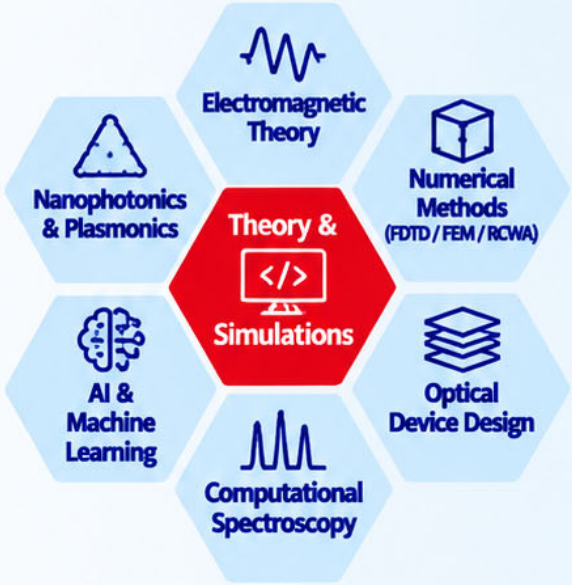
Simulations of Raman, SERS, and other optical spectra



AI-Accelerated Modeling

Machine learning and physics-informed models for rapid design and discovery

Research Topics



Why Join Us?

- Interdisciplinary research at the interface of theory, computation, and experiment
- Access to powerful computing resources
- Collaborative and supportive environment
- Strong publication and career development

We Are Looking For

- Motivated Ph.D. students
- Backgrounds in physics, applied physics, optics, or computational science
- Interest in electromagnetics, photonics, optical modeling, or scientific computing

Apply Now

Learn more about our research and application at:

www.zhao-nano-lab.com