

East Carolina University®
Departments of Physics & Biology

Colloquium

Friday, April 4th, Room N109, Howell Science Complex
3:15 p.m. (Refreshments at 3:00 p.m.)

Professor Qing Gu
North Carolina State University

Nanophotonic Materials, Metamaterials, and Devices

Nanophotonic materials and metamaterials enable many photonic devices with novel functionality and high performance. I will introduce gain-assisted luminescent hyperbolic metamaterials, miniature magneto-optical traps utilizing metasurfaces, and on-chip light sources of various functionalities. Utilizing optical gain and loss in emerging material composites, I will also discuss topologically protected microlasers, charge-parity symmetry-enabled all-dielectric hyperbolic metamaterials, and topological photonic states for robust data transportation.

WebEx Link:

<https://ecu.webex.com/ecu/j.php?MTID=m597b61dec85df5a0e1e21138fe56cd86>

Individuals with disabilities who require accommodations in order to participate in any event at ECU are encouraged to contact the Department for Disability Support Services at 252-328-4802 (Voice/TDD) forty-eight hours prior to the start of any program. For information regarding the Colloquium, please call 252-328-6739.