

*Joint Department of*

# BIOMEDICAL ENGINEERING



UNC  
CHAPEL HILL

NC STATE  
UNIVERSITY

**Presents:**  
**Undergraduate Research in Biomedical Engineering**

## **Christian Fitzgerald**

**“Energy Density-Dependent Modulation of Polyacrylamide Gel Stiffness using Riboflavin and Blue Light.”**

Lucas Scholar under Faculty Mentor: Imran Rizvi

## **Kamellia Karimpour**

**“Agreement of Newer Hand-Held Ultrasound Devices for Post-Dive Venous Gas Emboli quantification compared to standard 2D echocardiography”**

Lucas Scholar under Faculty Mentor: Virginie Papadopoulou

## **Amber Detwiler**

**“Donor Age and Time in Culture Affect Dermal Fibroblast Contractile Properties in an in vitro Hydrogel Skin Graft Model”**

Abrams Scholar under Faculty Mentor: Danny Freytes

## **Emily Warren**

**“Characterizing Extracellular Matrix Structure to Inform Mechanics in Vascular Ehlers-Danlos Syndrome”**

Abrams Scholar under Faculty Mentor: Bill Polacheck

Friday, November 19th  
12:00 PM

Presentations will be presented from:  
321 MacNider Hall (UNC)  
& 4142 Engineering Building III (NC  
State)