



**Clayton W. Commander,
MD, PhD.**

A native of Florida, Dr. Commander grew up in Niceville, on the gulf coast of the Panhandle. He completed his BS in Mathematics Phi Beta Kappa at UF in 2003, receiving highest honors for a thesis written under the guidance of Distinguished Professor Panos Pardalos. He worked as a civilian for the United States Air Force from 2003-2008, and in 2007, completed a PhD with Professor Pardalos. In 2010, he completed a year of post-doctoral training with Dr. Michael Knowles in the Cystic Fibrosis Pulmonary Research and Treatment Center at the University of North Carolina in Chapel Hill and began medical school at UNC. After graduating from medical school in 2014, he remained at UNC, completing a year-long internship in general surgery and is now in his second year of residency training in Radiology. His wife, Leah, also a UF alumna, completed medical school at UNC in 2016 and is a resident physician in the Department of Pathology. They live in Chapel Hill with their 2 children, Benjamin (3) and Hannah (1).

From OR to the OR: How Optimization is Shaping Modern Medicine

The field of Operations Research, with its focus on efficiency, optimization, and improved design has the ability to impact all facets of our lives and all fields of investigational research. Medicine is no exception. We are nearing a time when a complete genome scan will be part of our medical records, informing physicians about the mutations our genes harbor which make us susceptible to an array of diseases and treatments. Next generation imaging involving novel radiopharmaceuticals will allow better and faster visualization of pathology while limiting radiation dose to patients. Minimally invasive procedures performed under image guidance continue to revolutionize healthcare delivery, minimizing morbidity, saving costs, and improving patient satisfaction. Many of the challenging problems faced in medicine are beyond the training received in medical school and require multidisciplinary teams of engineers, biostatisticians, and geneticists, among others. Having sat on both sides of the table, I have a unique perspective that affords great opportunities for collaboration. In this talk, I will examine several problems in biomedicine and show how OR/ISE techniques can help solve them.

- Free & Open To All -

Thursday, November 10, 2016 ☉ Time: 3:00 pm – 4:00 pm

Location: FAB 103 (Fine Arts Building B)