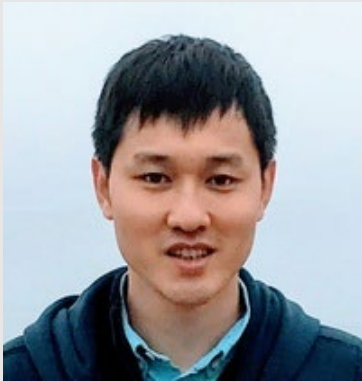




## INFORMS Student Chapter Seminar Series



**Dr. Boshi Yang**

Assistant Professor  
Clemson University

**Freeman Hall  
Auditorium**

**Wednesday, October 30  
1:25 - 2:15 pm**

### **What is Conic Programming?**

#### **Abstract**

A Linear Program (LP) minimizes a linear objective over the intersection of an affine space and the nonnegative orthant. A conic program generalizes LP by replacing the nonnegative orthant with a nonempty, pointed, closed, convex cone. Examples of conic programming include Second-Order Cone Programming (SOCP), Semidefinite Programming (SDP), and Copositive Programming (COP). In this talk, we will introduce various examples that can be represented as conic programs. We will also discuss conic programming duality and interesting facts about those lovely cones.

#### **About the Speaker**

Dr. Boshi Yang is an Assistant Professor in the School of Mathematical and Statistical Sciences at Clemson University. He received his B.S. in mathematics and applied mathematics from Zhejiang University in 2010 and his PhD in applied mathematical and computational sciences from University of Iowa in 2015. His research interests include quadratically constrained quadratic programming, conic optimization and mixed integer quadratic programming. He received the Outstanding Service to Graduate Students award from the School of Mathematical and statistical Sciences in Clemson University in 2019.