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## **Discrete Mathematics Seminar**

Time: Friday, December 2, 2016, 2:15-3:15 PM  
Room: 237 Derrick Hall  
Title: Monochromatic and rainbow substructures in edge-colored graphs  
Speaker: Dr. Colton Magnant, Department of Mathematical Sciences, Georgia Southern University

### Abstract:

Starting at classical Ramsey numbers, we will take a journey through the study of monochromatic subgraphs of edge colored graphs. Many wonderful properties hold for 2-colorings but fail, sometimes badly, when more colors are introduced. One of the main topics of this talk will be considering those properties of 2-colorings that are preserved when more colors are allowed but certain colored substructures are forbidden.

### Bio:

Colton Magnant received his Ph.D. in 2008 from Emory University under the direction of Ron Gould. After a post-doc at Lehigh University, he joined Georgia Southern University. In addition to over fifty publications, he has founded two research journals, one as Editor-In-Chief called Theory and Applications of Graphs.