

# BI-CO MATHEMATICS COLLOQUIUM

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## **"Biostatistics and Medical Devices: Making a Difference in People's Health Everyday"**

**Monday, March 27, 2017**

**Talk at 4: 30 – H109**

**Tea at 4:15 – KINSC Math Lounge, H208**

### **Abstract:**

The field of statistics plays a key role in the biological and health sciences. For more than 50 years, scientific experiments called randomized clinical trials have formed the basis for the evolution of the safety and effectiveness of new pharmaceutical drugs and medical devices. Now in the era of Big Data with the genomic revolution as well as improved medical registries and the dawn of electronic health records, newer statistical innovations such as Bayesian and adaptive clinical trials and the use of real world evidence hold the promise of revolutionizing the evaluation of new medical products, including diagnostic test evaluation used in personalized (precision) medicine.

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