

**MATHEMATICS AND STATISTICS
COLLOQUIUM ANNOUNCEMENT**

Friday, October 2, 2009
3:30 to 4:30 PM
ARTS 217

SPEAKER

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Department of Mathematics and Statistics

TITLE

Teaching Regression using Interactive Visualization

ABSTRACT:

The theory of regression analysis is closely linked to concepts in multidimensional geometry. While geometric language is commonly used in textbooks, students' intuition about such ideas may not be well developed. Computer graphics allows the creation of interactive images to illustrate concepts such as subspaces, projections, residuals, and partial correlation. A set of MATLAB programs provides an interface through which students can explore the geometric ideas and test their own intuition.