

# Colloquium announcement

## “From variable selection to differential Bayesian networks”

Presented by  
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Tuesday, March 28, 2017  
300 Seitz Hall  
3:30 p.m.

**Abstract:** Selecting variables potentially associated with a variable of interest is an important step toward successes of inferences and correct identification of risk factors. Variable selection itself is of great interest and it is also an essential component in the construction and testing of Bayesian networks (directed acyclic graphs). In this talk, I focus on our recently developed variable selection methods in linear models, and methods for testing differential Bayesian networks. The advantages of the methods are theoretically justified and demonstrated via simulations. We apply the methods to genetic and epigenetic data.

Hosted by the  
Department of Statistics  
Virginia Tech

Please join us after the colloquium for refreshments at  
Top of the Stairs (217 College Ave.)