

# ***Variance Components for Modeling Quantitative Traits***

Biostatistics 666  
Guest Lecturer  
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# Today

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- Analysis of quantitative traits
- Kinship coefficients
  - measure of genetic similarity between two individuals
- Modeling covariance for pairs of individuals
  - estimating heritability
  - estimating locus-specific heritability
- Extending the model to larger pedigrees

# Kinship Coefficients

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- Summarize genetic similarity between pairs of individuals.
- In a variance components model, they predict the phenotypic similarity between individuals.