

# What Makes a Good Model?

Appropriate method

- Assumptions are met & correct for data type

Model fits data

- Occums razor
- Consistent fit of data to predictions (across range)
- Better supported than other models

Model leads to verification

- Predictions can be derived for subsequent testing

# Comparing Models

Circumscribe candidate models

Assess *evidence* for support

- Rank models

Multimodel inferences

- Model averaging