ECE 457/557  
Engineering Data Analysis & Modeling  
ece.pdx.edu/~edam

Dr. James McNames  
mcnames@pdx.edu  
Electrical & Computer Engineering

Schedule

- Monday, 11/27  
  - Nonlinear modeling, curse of dimensionality, bias-variance tradeoff  
  - Peer reviews due
- Wednesday, 11/29  
  - Final comments on nonlinear modeling (thin plate splines)  
  - Final quiz  
  - Instructor evaluations

Schedule Continued

- Thursday, 12/6, 12:30-2:20 pm  
  - Project presentations  
  - Plan on 12 minutes each  
  - Attendance required
- Friday, 12/7, 8 am  
  - Final project reports due

Miscellaneous

- Peer reviews due now (12:00 pm)  
  - 5% of your final score based on thoroughness
- Will distribute via email by 8:00 am tomorrow
Final quiz

- Will only cover material after linear regression
- Short, conceptual questions (like midterm)
- Should understand properties and tradeoffs of the techniques we’ve discussed
- Will include material through today’s lecture, but not next Wednesday’s

Oral presentations

- 13 minutes per presentation
  - 1 minute set up
  - 10 minutes for presentation
  - 2 minutes for questions
- See class web site for advice, will update soon

Lecture Overview

Last Time
- Oral presentation tips
- Begin nonlinear modeling

This Time
- Continue nonlinear modeling
  - Curse of dimensionality
  - Smoothing in low dimensions
  - Bias-variance tradeoff
  - Prediction error estimation
  - Properties and tradeoffs