



Department of Mathematics
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Department of Applied Mathematics and Statistics
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WORKSHOP ON BAYESIAN MODELING USING WINBUGS ATHENS 24-25/8/2010

Normal and Generalized Linear Models (Sessions 8 – 11)

Instructor: Ioannis Ntzoufras

Session 8: Introduction to normal regression models

Transparencies 5–1 to 5–65

Session 9: ANOVA models, parameterizations, Introduction to GLM

ANOVA models:	Pages 5–66 to 5–86
Dummy Variables & Parameterizations:	Pages 6–1 to 6–20
Introduction to GLMs:	Pages 7–1 to 7–24

Session 10: Poisson and Binomial Models

Poisson regression models:	Pages 7–25 to 7–52
Binomial models (general):	Pages 7–53 to 7–63
Binomial models (example):	Pages 7–64 to 7–76 (lab)
Non standard models (Inv.Gaussian):	Pages 8–1 to 8–16

Session 11: Poisson and Binomial Models

See handout for guidance

Binomial models (example):	Pages 7–64 to 7–76
Inverse Gaussian model:	Pages 8–10 to 8–16
Gamma model:	<i>produce your own code</i>
ANOVA models:	Pages 5–79 to 5–86 & 6–12 to 6–20 (if we have time)

All page numbers refer to the presentation pages.