

Variance in Condition vs Nest Size Instar As Number

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glmmPRQ model - not able to get AIC value

Rows removed with 2 or fewer data points

	Chisq	Df	p_value
logCtFm	3.23	1.00	0.073.
InstarNumber	15.25	1.00	0.000***
I(InstarNumber^2)	7.81	1.00	0.005**
InstarNumber:InstarSex	10.15	1.00	0.001**
logCtFm:InstarNumber	0.16	1.00	0.691 RMVD
logCtFm:InstarNumber:InstarSex	0.33	1.00	0.564

[1] “term with highest p value is: logCtFm:InstarNumber”

	Chisq	Df	p_value
logCtFm	3.23	1.00	0.073.
InstarNumber	15.25	1.00	0.000***
I(InstarNumber^2)	7.81	1.00	0.005**
InstarNumber:InstarSex	10.11	1.00	0.001**
logCtFm:InstarNumber:InstarSex	0.49	2.00	0.783 RMVD

[1] “term with highest p value is: logCtFm:InstarNumber:InstarSex”

	Chisq	Df	p_value
logCtFm	3.21	1.00	0.073 RMVD
InstarNumber	15.16	1.00	0.000***
I(InstarNumber^2)	7.76	1.00	0.005**
InstarNumber:InstarSex	10.10	1.00	0.001**

[1] “i = 1” [1] “term with highest p value is: I(InstarNumber^2)”

Final Model is: bootVarTrans ~ logCtFm + InstarNumber + InstarNumber:InstarSex

Graph

note: blue line just lm model

Note: If line on graph is blue R could not plot the lmer, plotting a simple lm instead[1] "no model selected"

[1] "no or incorrect model specified"

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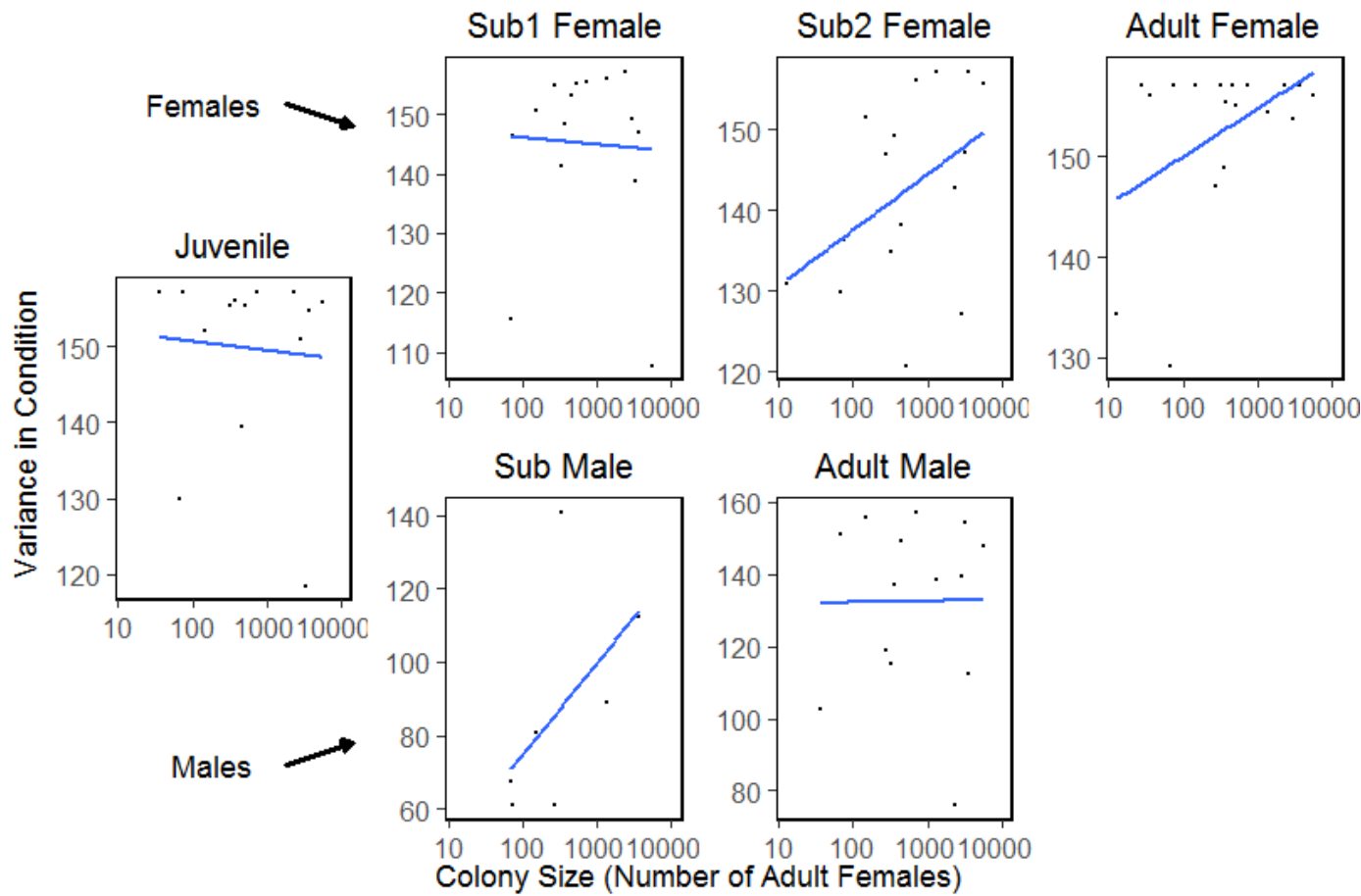


Figure 1: plot of chunk unnamed-chunk-1

Testing Individual Instars

As the three way interaction is significant testing instar individually

	LR Chisq	Df	Pr(>Chisq)
logCtFm	2.843379	1	0.0917511

	LR Chisq	Df	Pr(>Chisq)
logCtFm	2.39088	1	0.1220449

	LR Chisq	Df	Pr(>Chisq)
logCtFm	0.6262373	1	0.4287389

	LR Chisq	Df	Pr(>Chisq)
logCtFm	0.0476397	1	0.8272225

	LR Chisq	Df	Pr(>Chisq)
logCtFm	0.0417104	1	0.8381727

	LR Chisq	Df	Pr(>Chisq)
logCtFm	2.242466	1	0.1342667

Graph of condition variance against instar

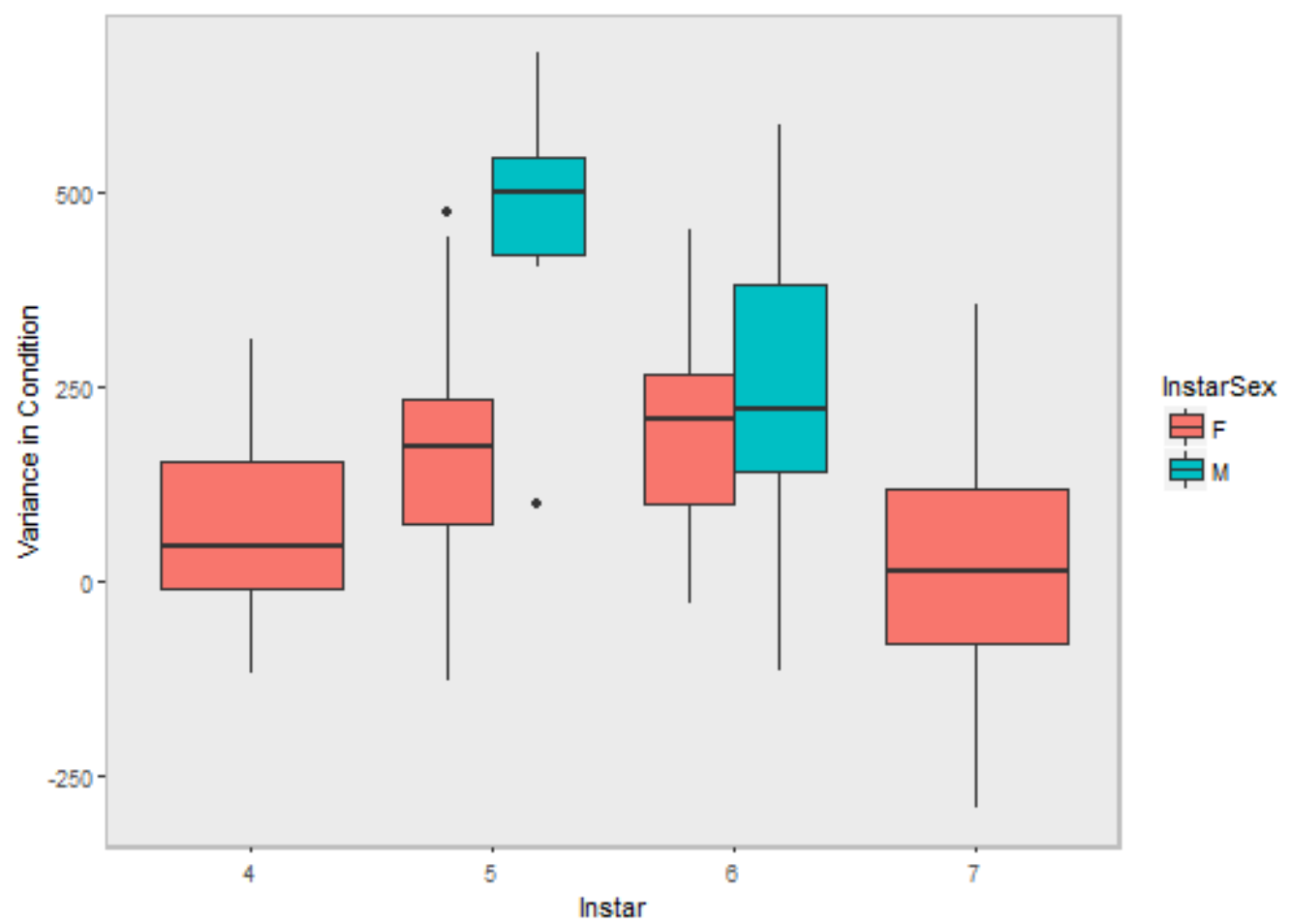


Figure 2: plot of chunk unnamed-chunk-2