

Problem (circle): R1 / R2 / A1 / A2 Group number 01

4/12 → 2/6

0.75 / 1
1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

- too many digits

0.5 / 1
2. Introduction/Background:

brief statement of scientific question - not correct

all variables defined

0 / 2
3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.5 / 2
4. Model fitting:

define model mathematically

before fitting

state how model fitted (ie, LS)

CLEARLY describe how model selected - not complete

define all terms - AIC, HSD

0.5 / 2
5. Model assessment:

CLEARLY state model assumptions:

incomplete

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

- interpret, don't just conclude

2.25 / 8

0.5 / 1

6. Write out final estimated model **mathematically**

incomplete + not

hat on response variable

max 2 sig digits on coefs

completely
defined (what
do the variable
terms mean?)

0.75 / 1

7. Plots:

number each plot
label size (not too small)

informative captions

placement

NOT BLURRY

0.25 / 1

8. Conclusions

recap analysis

state and interpret

main findings

not
correct

0.25 / 1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- project 1 - markdownfile.pdf ?? (p. 1)

- incorrect interps (p. 1/2 / throughout)

- 2-way anova ?? (p. 3)

- no citations

- what is the purpose of the plot on p. 2?

- interpret interaction plots, don't 'just conclude'

1.75 / 4

$$6.5/12 \rightarrow 3.25/6$$

Problem (circle): R1 / R2 / A1 / A2 Group number 02

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

- digits (t/p-values)

2. Introduction/Background:

brief statement of scientific question

- not correct

all variables defined

Flavor score

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Also for categorical vars

4. Model fitting:

define model mathematically

- over-parametrized; i, j, k, l, m, n as written

state how model fitted (ie, LS)

CLEARLY describe how model selected

- which F-tests explain selection procedure not just command

define all terms

i/j/.../m, AIC

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

- not correct

carry out assessment (graphics):

SQUARE qq normal plot of residuals, - interpret plot

residuals vs. fitted - interpret plot

Don't need Shapiro-Wilk, Levene

$$4.5/8$$

0.25/

6. Write out final estimated model **mathematically**

where are est. coeffs?

hat on response variable

max **2 sig digits** on coeffs

0.75/

7. Plots:

Fig 1 - density curve not defined

label size (not too small)

informative captions

placement

NOT BLURRY

0.25/

8. Conclusions

recap analysis

state and interpret

not correct

main findings

0.75/

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- results would be more clear in a table

- interpret interaction plots, don't just conclude

- give p-values (not < 0.01)

- anova tables?

Problem (circle): R1 / R2 / A1 / A2 Group number 03

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined - F (not $\hat{F}$)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

* The way you have written the model is incorrect, you need to use indicator variables for factor levels

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

The β 's are also estimated

0.75/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

(+EDA)

state and interpret

main findings

not completely correct

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

overall logic hard to follow

- refs incomplete

- anova tables?

- why do you use different measures for your different models

5/12 → 2.5/6

Problem (circle): R1 / R2 / A1 / A2 Group number 04

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

0.25/1 2. Introduction/Background:

brief statement of scientific question not clear

all variables defined

flavor score

1/2 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Figure 1 perhaps better summarized numerically

0.25/2 4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

0.5/2 5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

- SQUARE

interpret plots, don't just conclude

3/8

0/1 not done?

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.25/1

8. Conclusions

recap analysis

state and interpret

main findings

not correct

0.75/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- Square QQ plots

- 'normality' (not 'gaussianity')

Problem (circle): R1 / R2 / A1 / A2 Group number 06

0.5/12 → 4.25/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

— (Flavor score only implicit)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

(probably don't need Figure 2)

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

errors 'satisfy' (not 'verify') + iid
You 'assess', not 'verify', assumptions

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE — qq normal plot of residuals,

residuals vs. fitted

— full interpretation

0.75/1 (define γ)

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1 $\rightarrow$ $\hat{\alpha}_{i,j}$

7. Plots:

label size (not too small)

(informative captions)

placement

NOT BLURRY

- figure 2 not 'pie charts'

8. Conclusions

recap analysis

state and interpret

main findings

not correct

0.75/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

$\rightarrow$ cite ^{all} refs 'in text' (no 'general' refs)
- somewhat superficial

2.5/4

Problem (circle): R1 / R2 / A1 / A2 Group number 08

9.25/12 → 4.625/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

categorical
over-parametrized as written
is for estimated values + incompletely specified
i, j, k, l, e^r

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE

— qq normal plot of residuals,

residuals vs. fitted

interpret
(don't need Shapiro-Wilk)

6.5/8

0.5/1
- why do you have interactions if they are not significant?

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

- no error in est. model

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1
8. Conclusions

recap analysis

state and interpret

main findings

be specific

0.75/1
9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- don't need Table 1

- Typically you start reducing the model by removing interactions

- integer df

2.75/4

Problem (circle): R1 / R2 / A1 / A2 Group number 10

5.75/12 → 2.975/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC; i
XXXX: ??

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,
residuals vs. fitted

interpret these
plots

0.5/2
0.25/2
3.75/9

0.75/1
0.5/1
0.25/1
0.5/1
2/4
6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coeffs

no error term in estimated model

7. Plots: number all plots

label size (not too small)

informative captions

placement

NOT BLURRY

- what does the plot just above 1.3 mean?

8. Conclusions

recap analysis

state and interpret

not correct

incomplete

main findings

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- Table 2 p-values un-informative

- just above Table 3: its (not it's)

- 01, 9, 2: what is the average flavor score?

Without this, cannot tell how good the model fit is

- no references

Problem (circle): R1 / R2 / A1 / A2 Group number 11

5.25/12

2.625/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

Flavor Score

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

i, j, k, l, m

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

interpretation not entirely correct

3.5/8

0.25/1
④ Final model leaves out size, so design/hypotheses not balanced/interpretable

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.25/1
8. Conclusions

recap analysis

state and interpret

main findings

not correct

0.5/1
9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- put refs at end (no footnotes)
- incorrect interpretation of design plot
- use words, your report jumps from bullet point to bullet point

1.75/4

Problem (circle): R1 / R2 / A1 / A2 Group number 13

9.5/12 → 4.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

CLEARLY state model assumptions:

1. errors have mean 0

2. errors are homoscedastic (same variance)

3. errors are uncorrelated

4. errors are normally distributed

carry out assessment (graphics):

SQUARED qq normal plot of residuals,

residuals vs. fitted

(don't need test)

3-way interactions not included
incomplete; stepwise not
at the same time

over-parameterized as written
- results for both models
- not 'validated'

i, j, k, l, m

AIC

SQUARED

incomplete interpretation

6.25/8

14

7. Plots:

informative captions

NOT BLURRY

0.25

conclusions
recap analysis

not completely
correct

main findings

satisfactory

excellent

- square QQ plots

3.25/4

7/12 → 3.5/6

Problem (circle): R1 / R2 / A1 / A2 Group number 14

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

(too many digits)

2. Introduction/Background:

brief statement of scientific question

'are associated with'
(not 'influence')

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

- Don't need favor box plot

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

what does 'analysis framework' mean?

* CLEARLY describe how model selected

define all terms

- Tests not specified (mathematically)

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

what does 'linearity' mean here? You have specified a linear (in the parameters) model

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

- interpret plot, don't just conclude incomplete interpretation

* you can specify a 'full' model for step AIC that is not saturated (look at 'scope')

hat on response variable

label size (not too small)

placement

NOT BLURRY

recap analysis

state and interpret

main findings

not correct

poor

satisfactory

good

excellent

- you should not have p-values of 0

[illegible]
$$2/4$$

7.75/12 → 3.875/6

Problem (circle): R1 / R2 / A1 / A2 Group number 17

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

- 1. errors have mean 0
- 2. errors are homoscedastic (same variance)
- 3. errors are uncorrelated
- 4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

These plots do not 'ensure the validity' of model
explain + interpret plots, don't just conclude

- Don't need Levene's

5.5/8

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

1/1

7. Plots:

label size (not too small)

placement

QQ normal plot of residuals
(informative captions)
NOT BLURRY

0.25/1

8. Conclusions

recap analysis

-not 'confirms'
state and interpret not completely correct
main findings

what are the 'valuable insights'?

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

logic somewhat difficult to follow

-cite primary refs

-conclusions over-stated, also vague

2.25/4

7.25/12 → 3.625/6

Problem (circle): R1 / R2 / A1 / A2 Group number 18

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0

2. errors are homoscedastic (same variance)

3. errors are uncorrelated

4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

⊛ no F-value for resids

explain plots + then interpret
then conclude

9.75/10

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.25/1

8. Conclusions

recap analysis

state and interpret

main findings

- These results seem to conflict with final model

not correct

logic hard to follow in parts

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references)

poor

satisfactory

good

excellent

- refs: how is phylogenetic tree AIC relevant?
- cite primary refs
- your model selection procedure and results are not completely clear

2.5/4

7.25/12 → 3.625/6

Problem (circle): R1 / R2 / A1 / A2 Group number 19

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

① - final model anova table?

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

① if you have interactions with size, you should also have size as a main effect, otherwise you no longer have orthogonal effects

4.75/8

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state and interpret

main findings

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

* write the final estimated model as an equation (combine pgs 5+6)
+ Logic somewhat hard to follow

2.5/4

7.5/12 → 3.75/6

Problem (circle): R1 / R2 / A1 / A2 Group number 20

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

Flavor score (only implicitly defined)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

explain clearly - explain plot (what does 'red line' mean?)
* you over-state your findings - analysis does not 'confirm' a causal effect

(see ~~*~~) 0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state and interpret

main findings

not correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references)

poor

satisfactory

good

excellent

*re-write Equation (2) to include the numerical values and remove Table 4
- remove excessive space p. 2
- no refs

+ correctness

0.25/1
0.5/1

2.5/4

7/12 → 3.5/6

Problem (circle): R1 / R2 / A1 / A2 Group number 88

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

(not quite correct)

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Don't need boxplot

over-parametrized as written

4. Model fitting:

define model mathematically - no $\hat{\cdot}$ with $\pm \epsilon$

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

is, j, k, l, m
- put Table 4 all on 1 page + variable names in Table

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

- explain plot + interpret correctly

4.75/8

0.75/1

y not defined

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.75/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis
(+EDA)

state and interpret
main findings

not correct

0.25/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

logic hard to follow

poor

satisfactory

good

excellent

- Table 6 confusing

- no refs

- why Figure 2 has 2 separate plots?

- Square 9-9 plots

225/4

7.25/12 → 3.625/6

Problem (circle): R1 / R2 / A1 / A2 Group number 89

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

too many digits

2. Introduction/Background:

brief statement of scientific question

Don't need (3)

all variables defined

Factor only implicitly defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

(CLEARLY) describe how model selected

define all terms

over-parametrized as written

Explain any tests mathematically

i, j, k, l, m , AIC

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

interpret, don't just conclude

interpretation not completely correct

explain plots

How do you deal with the saturated model?
You have size in interaction terms but not as main effect
- this means the effects are not orthogonal!!

5/8

0.11 not done?
6. Write out final estimated model **mathematically**

(hat) on response variable

max 2 sig digits on coeffs

0.5
7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.75
8. Conclusions

recap analysis
TEDA

state and interpret

main findings

not correct

0.75
9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- square QQ plots

- cite primary refs (not [5])

- anova tables would be much clearer if you use words rather than symbols

2.25/4

5.75/12 → 2.875/6

Problem (circle): R1 / R2 / A1 / A2 Group number 20

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

Top p.7

2. Introduction/Background:

brief statement of scientific question

(not entirely correct)

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Don't need figure 2

Figure 3 unclear because only 2 levels of G+H (??)

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Don't need F formula randomization description not entirely correct

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

+ interpret plots

Figure 3: Grow

not G 1 2 H 1 2
3 4 3 4

Here, the 'groups' are the cross classified obs, NOT separately for each var.

2 2
2 (3 4)
3 4

3.25/8

which is Final model?

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state and interpret

main findings

not completely correct

+ completeness/correctness

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

somewhat insufficient

- Table 3 differs slightly from Eq. 4

- Don't need both Tables 3 & 4, just put equation with final selected model

2.5/4