

GLM: Name

KA

7.75/12 → 3.875/6

1. Formatting:

all margins 2.5cm informative title

12 pt size name on all pages

no raw R code or output all pages numbered

max **10** pages no blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA: 'Extra' figure 1 here

univariate numerical bivariate numerical (cor)

univariate graphical bivariate graphical

4. Model fitting: Poisson not poisson

give mathematical definition of model

not correct + suspicious
+ incomplete

state how model fitted (ie, maximum likelihood)

not 'R uses'

CLEARLY describe how model selected

define all terms AIC, dispersion stat!

Pearson not pearson

5. Model assessment:

1.25/2 **CLEARLY** state model assumptions: + give **PRIMARY** references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

+ Explain clearly

5.5/8

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

Extra Figure

8. Conclusions

1. recap analysis

2. be specific state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.25/4

GLM: Name AC

6.75/12 → 3.375/6

1. Formatting:

all margins 2.5cm

informative title

0.75/12 12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

0.5/12 2. Introduction/Background:

unclear, imprecise
brief background and statement of scientific question

all variables defined

0.5/12 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.75/12 4. Model fitting:

give mathematical definition of model

not correct + suspicious
+ incomplete

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

- not 'observe impact on # attacks'

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson 2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

single line

+ explain

3.75/8

1/1 6. Write out final *estimated* model **mathematically**

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small) informative captions

placement explanations

8. Conclusions *somewhat incomplete*

1. recap analysis *+ EDA*

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references): *logic hard to follow*

poor

satisfactory

good

excellent

10. Other comments:

A – no (*incomplete*) / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: - not 'try to'

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

use paragraphs
brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

imprecise, +
 Don't need to compare
 - you are the
 analyst

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, deviance

not "confirm"

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

+ EXPLAIN

relevant scatterplots (linearity assumption)

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

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.5/ 7. Plots:

label size (not too small)
placement

informative captions
explanations

0.25/ 8. Conclusions

1. recap analysis

2. state and interpret main findings

not correct

0/ 9. Overall presentation (clarity of explanations, appropriate citations / references) : ~~NO AI~~ ALLOWED -

poor

satisfactory

good

excellent

10. Other comments:

A – no/ incomplete / insufficient references (Clay?)

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear incompl let

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

GLM: Name _____

yc 8.75/12 → 4.375/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

model
specification

2. Introduction/Background:

brief background and statement of scientific question

not re-analyze!

all variables defined

3. EDA:

Don't need figure

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

incomplete + don't use R for formulas

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

LR^T
+ state hys mathematically

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

+ clear explanation

5.5/8

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

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small) informative captions

placement explanations

8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

GLM: Name

NG

9.25/12

→ 4.625/6

1. Formatting:

✓ all margins 2.5cm

informative title

✓ 12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

0.75/1
2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

2/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

1.5/2 give mathematical definition of model

state how model fitted (ie, maximum likelihood)

(CLEARLY describe how model selected)

define all terms

results table for final model

5. Model assessment: not 'sig worse': no statistical test

1.25/2 CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

- how does normal qq 'help' (specifically)
- square qq plots

first explain plots
then interpret
then conclude

6.5/8

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots.

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

TEDA

2. state and interpret main findings

not correct

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other: - square QQ plots

2.75/4

GLM: Name _____

M-M G-L

7.5/12 → 3.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT** png)

0.75
2. Introduction/Background:

brief background and statement of scientific question

(imprecise)

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

in complete

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

deviance (resid)

5. Model assessment:

1.5/2 **CLEARLY** state model assumptions: + give **PRIMARY** references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

+ explain clearly

4.75/8

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)
placement

informative captions
explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

not completely correct

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.75/4

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pagesno blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA: **(ok)**

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

(residual) deviance, dispersion stat, VIF

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

- explanation

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

hat on response variable max 2 sig digits (after decimal) on coeffs

7. Plots: *Figure 3 should not be square*

label size (not too small) informative captions

placement explanations

8. Conclusions

1. recap analysis

~~+EDA~~

2. state and interpret main findings

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

poor

satisfactory

good

excellent

- be specific
- grammar check
- use more paragraphing
- many run-on sentences

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

GLM: Name RL

RL

$$\frac{8.75}{12} \rightarrow \underline{4.375} / 6$$

1. Formatting:

- | | |
|--------------------------------|---------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | name on all pages |
| no raw R code or output | all pages numbered |
| max 10 pages | no blurry plots (NOT png) |

0.5 /

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

It need to replicate - you are
the analyst
scientific question
clearly state

1.75

3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

1.25

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms ATC VTE

Table of Contents

Table of results for CoE

5. Model assessment:

5. N
1.5 / 7
CL

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
 2. independent obs
 3. linear relation between log count and linear predictor
 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

first explain plots,
then interpret
then conclude

68

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

0.75
label size (not too small)
placement

informative captions
explanations

0.25
8. Conclusions

1. recap analysis

2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms - multicollinearity measure

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY references**

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

- SQUARE QQ plot

5.75/8

one selected model

0.5% 6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.25% 7. Plots: + Figure 4 is a table + it's too small

label size (not too small)

informative captions

placement

explanations

0.25% 8. Conclusions

1. recap analysis

vague

2. state and interpret main findings

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

poor

satisfactory

good

excellent

0.75% 10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Square QQ

Other: Q1: you can do either, just explain reasoning

Q2: you could if you want, this is pretty informative

Q3: just give a visual assessment

Q4: what you have seems reasonable

* Don't need to re-do

GLM: Name MM

10/12 → 5/6 6/6

1. Formatting:

Y
all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

Dont need R details
max 10 pages

no blurry plots (NOT png)

0.75
2. Introduction/Background:

brief background and statement of scientific question

all variables defined

2/2
3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.5/2
4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, Deviance

5. Model assessment:

1.25/2
CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption) - line

interp: drives'

6.5/8

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

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small) informative captions

placement explanations

8. Conclusions

1. recap analysis 2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

1. Formatting:

- 0.75/1 all margins 2.5cm informative title
 12 pt size name on all pages
no raw R code or output all pages numbered
 max **10** pages no blurry plots (NOT png)

2. Introduction/Background:

- 0.75/1 brief background and statement of scientific question
 - too many digits
 not precise
 all variables defined

3. EDA:

- 1.75/2 univariate numerical bivariate numerical (cor)
 1 univariate graphical bivariate graphical

4. Model fitting:

- 1.25/2 give mathematical definition of model

- 1.25/2 state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Results table (orig + quasi)

5. Model assessment:

inference relies on the assumptions

CLEARLY state model assumptions: + give **PRIMARY** references

1. count outcome Poisson 2. independent obs
 3. linear relation between log count and linear predictor
 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

First explain plots
 then interpret
 then conclude

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

0.75
7. Plots:

label size (not too small)
placement

informative captions
explanations

0.75
8. Conclusions

1. recap analysis

+ EFA (explicitly)

2. state and interpret main findings

be specific

vague

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

0.75/1 poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

3.25/4

* Don't need to re-do

GLM: Name SM 10.75/12 → 5.375/6

→ 6/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

~~no raw R code or output~~

(*Don't need R files*)
max 10 pages

all pages numbered

no blurry plots (NOT png)

0.5/1 2. Introduction/Background:

brief background and statement of scientific question

I don't see it

all variables defined

2/2 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.75/2 4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC

1.75/2 5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

7/8

(ok)

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

3.75/4

GLM: Name _____

SP

9.75/12 → 4.875/6

1. Formatting:

- | | |
|--------------------------------|-----------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | name on all pages |
| no raw R code or output | all pages numbered |
| max 10 pages | no blurry plots (NOT png) |

0.75/1
2
2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, (residual) deviance, VIF

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

line

6.75/8

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

✓ hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

✓ label size (not too small)

informative captions

✓ placement

explanations

8. Conclusions

1. recap analysis

be specific not correct
2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no (incomplete / insufficient references)

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

GLM: Name _____

MV 7.5/12 → 3.75/6

1. Formatting:

- | | |
|--------------------------------|-----------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | name on all pages |
| no raw R code or output | all pages numbered |
| max 10 pages | no blurry plots (NOT png) |

0.5
1
2/2
0.75
1.2

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA: Why Table (?) not clear

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

VIF, AIC

5. Model assessment:

Before plots

CLEARLY state model assumptions: + give **PRIMARY** references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

5.25/8

$\hat{\beta}$'s

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

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)
placement

informative captions

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.25/4

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

Univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

incomplete give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms are $\leq \pm 2$ SD or Var

$$\underline{CI} = -$$

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

- 1. count outcome Poisson
- 2. independent obs
- 3. linear relation between log count and linear predictor
- 4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

Explaining + interpreting
clearly

5.5 / 8

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

10/ **hat** on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

1/1 label size (not too small)

informative captions

placement

explanations

0.25/ 8. Conclusions

1. recap analysis

2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite **PRIMARY** refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.5/4

1. Formatting:

all margins 2.5cm

- too many digits
informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pagesno blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question

most important??
clearly

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected**define all terms**

MI, AIC

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. count outcome Poisson
2. independent obs
3. linear relation between log count and linear predictor
4. conditional mean = conditional variance

carry out assessment (numerical / graphics):

relevant scatterplots (linearity assumption)

what quantities
are compared?First explain plots,
then interpret
then conclude

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

hat on response variable max **2 sig digits** (after decimal) on coeffs

✓ 7. Plots:

label size (not too small) informative captions

placement explanations

D. 5/1 8. Conclusions

1. recap analysis

(implicitly only) overstated

2. state and interpret main findings

be specific

D. 75/1 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:
