Replicating Figure 1a in Kolokotrones, 2010

Hannah Fung1,✉, Raeline Corryn Valbuena1,✉, and Ronghao Zhou1,✉

09 December, 2021

Text of abstract

1 Stanford University, Biosciences

✉ Correspondence: [Hannah Fung <[hffung@stanford.edu](mailto:hffung@stanford.edu)>](mailto:hffung@stanford.edu), [Raeline Corryn Valbuena <[raecv@stanford.edu](mailto:raecv@stanford.edu)>](mailto:raecv@stanford.edu), [Ronghao Zhou <[ronghao@stanford.edu](mailto:ronghao@stanford.edu)>](mailto:ronghao@stanford.edu)

Keywords: body mass, basal metabolic rate, replication

Highlights: Final project for Just Enough Software Engineering.

# 1 Introduction

This is a replication of figure 1a from1 (Fig. 4.1).

# 2 Background

# 3 Methods

# 4 Results

Figure ?? shows how we can have a caption and cross-reference for a plot

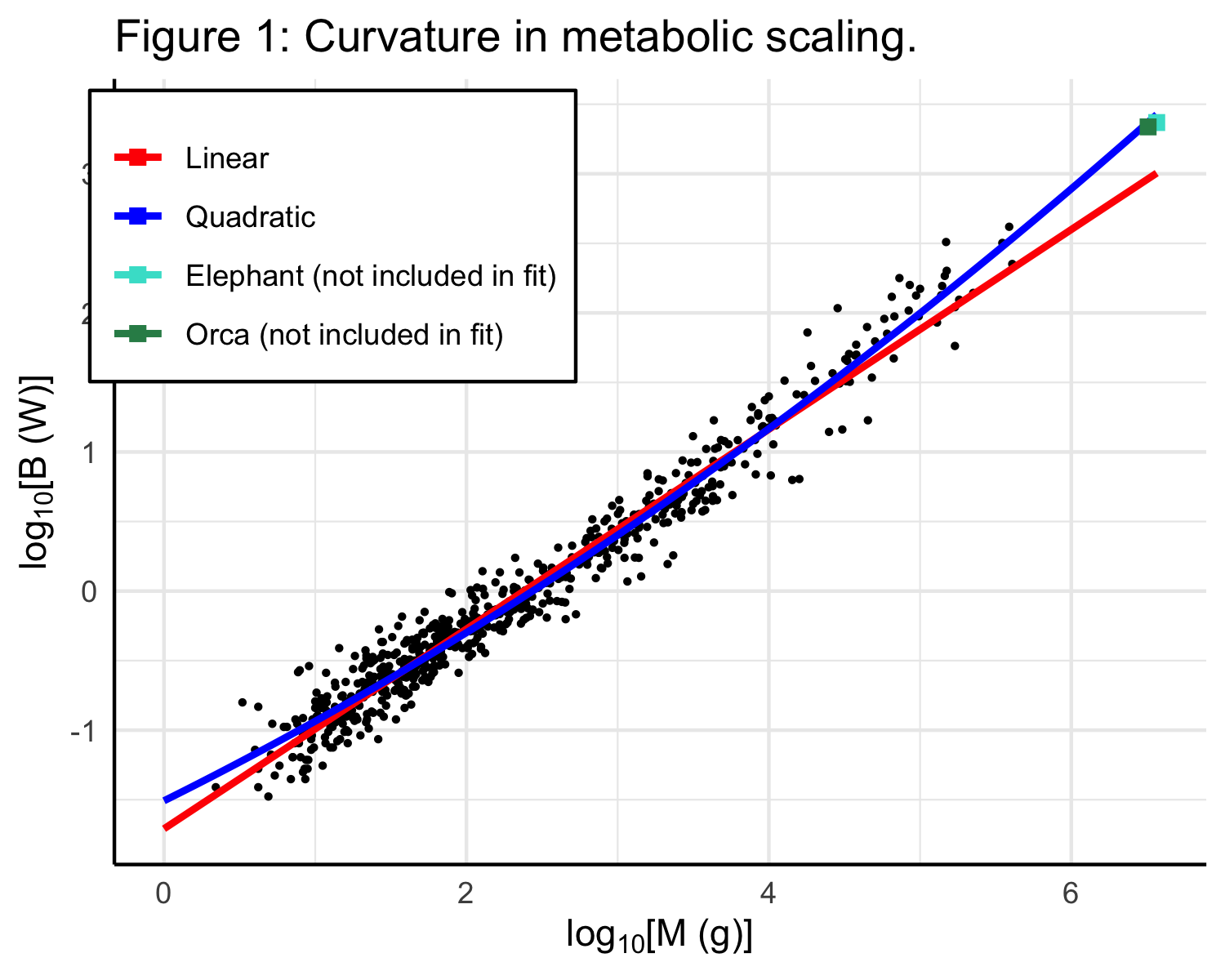


Figure 4.1: Replication of figure 1a from1

# 5 Discussion

# 6 Conclusion

# 7 Acknowledgements

# 8 References

1. Kolokotrones, T., Van Savage, Deeds, E. J. & Fontana, W. Curvature in metabolic scaling. *Nature* **464**, 753–756 (2010).

### 8.0.1 Colophon

This report was generated on 2021-12-09 13:04:14 using the following computational environment and dependencies:

#> ─ Session info 🇸🇻 👁️ 🌀 ──────────────────────────────────────────────────  
#> hash: flag: El Salvador, eye, cyclone  
#>   
#> setting value  
#> version R version 4.0.4 (2021-02-15)  
#> os macOS Big Sur 10.16  
#> system x86\_64, darwin17.0  
#> ui X11  
#> language (EN)  
#> collate en\_US.UTF-8  
#> ctype en\_US.UTF-8  
#> tz America/Los\_Angeles  
#> date 2021-12-09  
#> pandoc 2.11.4 @ /Applications/RStudio.app/Contents/MacOS/pandoc/ (via rmarkdown)  
#>   
#> ─ Packages ───────────────────────────────────────────────────────────────────  
#> package \* version date (UTC) lib source  
#> assertthat 0.2.1 2019-03-21 [1] CRAN (R 4.0.2)  
#> backports 1.2.1 2020-12-09 [1] CRAN (R 4.0.2)  
#> bookdown 0.24 2021-09-02 [1] CRAN (R 4.0.2)  
#> broom 0.7.6 2021-04-05 [1] CRAN (R 4.0.2)  
#> cachem 1.0.6 2021-08-19 [1] CRAN (R 4.0.2)  
#> callr 3.7.0 2021-04-20 [1] CRAN (R 4.0.2)  
#> cellranger 1.1.0 2016-07-27 [1] CRAN (R 4.0.2)  
#> cli 3.1.0 2021-10-27 [1] CRAN (R 4.0.2)  
#> colorspace 2.0-1 2021-05-04 [1] CRAN (R 4.0.2)  
#> crayon 1.4.2 2021-10-29 [1] CRAN (R 4.0.2)  
#> DBI 1.1.1 2021-01-15 [1] CRAN (R 4.0.2)  
#> dbplyr 2.1.1 2021-04-06 [1] CRAN (R 4.0.2)  
#> desc 1.4.0 2021-09-28 [1] CRAN (R 4.0.2)  
#> devtools 2.4.2 2021-06-07 [1] CRAN (R 4.0.2)  
#> digest 0.6.28 2021-09-23 [1] CRAN (R 4.0.2)  
#> dplyr \* 1.0.7 2021-06-18 [1] CRAN (R 4.0.2)  
#> ellipsis 0.3.2 2021-04-29 [1] CRAN (R 4.0.2)  
#> evaluate 0.14 2019-05-28 [1] CRAN (R 4.0.1)  
#> fansi 0.5.0 2021-05-25 [1] CRAN (R 4.0.2)  
#> farver 2.1.0 2021-02-28 [1] CRAN (R 4.0.2)  
#> fastmap 1.1.0 2021-01-25 [1] CRAN (R 4.0.2)  
#> forcats \* 0.5.1 2021-01-27 [1] CRAN (R 4.0.2)  
#> fs 1.5.0 2020-07-31 [1] CRAN (R 4.0.2)  
#> generics 0.1.0 2020-10-31 [1] CRAN (R 4.0.2)  
#> ggplot2 \* 3.3.5 2021-06-25 [1] CRAN (R 4.0.2)  
#> glue 1.5.0 2021-11-07 [1] CRAN (R 4.0.2)  
#> gtable 0.3.0 2019-03-25 [1] CRAN (R 4.0.2)  
#> haven 2.4.1 2021-04-23 [1] CRAN (R 4.0.2)  
#> here 1.0.1 2020-12-13 [1] CRAN (R 4.0.2)  
#> highr 0.9 2021-04-16 [1] CRAN (R 4.0.2)  
#> hms 1.0.0 2021-01-13 [1] CRAN (R 4.0.2)  
#> htmltools 0.5.2 2021-08-25 [1] CRAN (R 4.0.2)  
#> httr 1.4.2 2020-07-20 [1] CRAN (R 4.0.2)  
#> jsonlite 1.7.2 2020-12-09 [1] CRAN (R 4.0.2)  
#> knitr 1.36 2021-09-29 [1] CRAN (R 4.0.2)  
#> Kolokotrones \* 0.0.0.9000 2021-12-09 [1] local  
#> labeling 0.4.2 2020-10-20 [1] CRAN (R 4.0.2)  
#> lifecycle 1.0.1 2021-09-24 [1] CRAN (R 4.0.2)  
#> lubridate 1.7.10 2021-02-26 [1] CRAN (R 4.0.2)  
#> magrittr 2.0.1 2020-11-17 [1] CRAN (R 4.0.2)  
#> memoise 2.0.1 2021-11-26 [1] CRAN (R 4.0.2)  
#> modelr 0.1.8 2020-05-19 [1] CRAN (R 4.0.2)  
#> munsell 0.5.0 2018-06-12 [1] CRAN (R 4.0.2)  
#> pillar 1.6.4 2021-10-18 [1] CRAN (R 4.0.2)  
#> pkgbuild 1.2.0 2020-12-15 [1] CRAN (R 4.0.2)  
#> pkgconfig 2.0.3 2019-09-22 [1] CRAN (R 4.0.2)  
#> pkgload 1.2.3 2021-10-13 [1] CRAN (R 4.0.2)  
#> prettyunits 1.1.1 2020-01-24 [1] CRAN (R 4.0.2)  
#> processx 3.5.2 2021-04-30 [1] CRAN (R 4.0.2)  
#> ps 1.6.0 2021-02-28 [1] CRAN (R 4.0.2)  
#> purrr \* 0.3.4 2020-04-17 [1] CRAN (R 4.0.2)  
#> R6 2.5.1 2021-08-19 [1] CRAN (R 4.0.2)  
#> Rcpp 1.0.6 2021-01-15 [1] CRAN (R 4.0.2)  
#> readr \* 1.4.0 2020-10-05 [1] CRAN (R 4.0.2)  
#> readxl \* 1.3.1 2019-03-13 [1] CRAN (R 4.0.2)  
#> remotes 2.4.1 2021-09-29 [1] CRAN (R 4.0.2)  
#> reprex 2.0.0 2021-04-02 [1] CRAN (R 4.0.2)  
#> rlang 0.4.12 2021-10-18 [1] CRAN (R 4.0.2)  
#> rmarkdown 2.11 2021-09-14 [1] CRAN (R 4.0.2)  
#> rprojroot 2.0.2 2020-11-15 [1] CRAN (R 4.0.2)  
#> rstudioapi 0.13 2020-11-12 [1] CRAN (R 4.0.2)  
#> rvest 1.0.0 2021-03-09 [1] CRAN (R 4.0.2)  
#> scales 1.1.1 2020-05-11 [1] CRAN (R 4.0.2)  
#> sessioninfo 1.2.1 2021-11-02 [1] CRAN (R 4.0.2)  
#> stringi 1.7.5 2021-10-04 [1] CRAN (R 4.0.2)  
#> stringr \* 1.4.0 2019-02-10 [1] CRAN (R 4.0.2)  
#> testthat 3.1.0 2021-10-04 [1] CRAN (R 4.0.2)  
#> tibble \* 3.1.6 2021-11-07 [1] CRAN (R 4.0.2)  
#> tidyr \* 1.1.3 2021-03-03 [1] CRAN (R 4.0.2)  
#> tidyselect 1.1.1 2021-04-30 [1] CRAN (R 4.0.2)  
#> tidyverse \* 1.3.1 2021-04-15 [1] CRAN (R 4.0.2)  
#> usethis 2.1.3 2021-10-27 [1] CRAN (R 4.0.2)  
#> utf8 1.2.2 2021-07-24 [1] CRAN (R 4.0.2)  
#> vctrs 0.3.8 2021-04-29 [1] CRAN (R 4.0.2)  
#> withr 2.4.2 2021-04-18 [1] CRAN (R 4.0.2)  
#> xfun 0.28 2021-11-04 [1] CRAN (R 4.0.2)  
#> xml2 1.3.2 2020-04-23 [1] CRAN (R 4.0.2)  
#> yaml 2.2.1 2020-02-01 [1] CRAN (R 4.0.2)  
#>   
#> [1] /Library/Frameworks/R.framework/Versions/4.0/Resources/library  
#>   
#> ──────────────────────────────────────────────────────────────────────────────

The current Git commit details are:

#> Local: main /Users/raelinecv/RStudio/Kolokotrones  
#> Remote: main @ origin (https://github.com/Ronghao94/Kolokotrones.git)  
#> Head: [a2ba986] 2021-12-09: Cleaned up ggplot analysis.