

# Introduction to Generalized Linear Models

General course information

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# About me

- I'm a post-doc researcher at the Department of Developmental Psychology and Socialization
- I did a PhD in Experimental Psychology studying the unconscious working memory processing
- I work with Professor Gianmarco Altoè on data analysis in Psychology, especially meta-analysis

# Office hours

I do not have official office hours but we can schedule an appointment.  
you can write me at **filippo.gambarota@unipd.it**:

- my office is the 027, first floor Psico1 building (pink building)
- we can also schedule on Zoom

# Materials

The slides will be structured intermixing:

- R code
- Theory and Formulas (not a lot :) )
- Plots (a lot!)
- Examples and exercises

# Materials

- slides with the `#extra` tag are very specific but useful topics that will be eventually covered but are not part of the core course/exam

# R code

I mainly use R for my daily work but a deep understanding of R is not necessary.

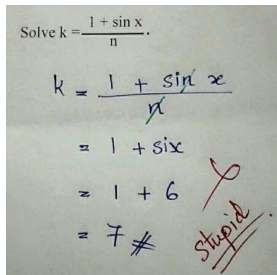
Slides are created with R Markdown (`.rmd` files) and distributed in pdf and all source scripts are available.

I wrote several custom functions that are used in the slide and maybe during the exercises.

# Theory and Formulas

I tried to reduce the amount of formulas. I prefer to make practical examples and showing the R code.

The probability of making an error or typo is close to 1 (Shepard, 2023), if you find something strange raise the hand or write me an email :)



Solve  $k = \frac{1 + \sin x}{n}$ .

$$k = \frac{1 + \sin x}{n}$$
$$= 1 + \sin x$$
$$= 1 + 6$$
$$= 7 \neq$$

*Stupid*

# Examples and exercises

I tried to make practical examples whenever possible and relevant.  
Furthermore we will see some exercises and case studies.




# Rules of the game

1. **Participate!** If you have questions, doubts, comments, etc. please ask
2. If something is **not clear or is discordant** with other information from previous courses, tell me.
3. **Participate!**
4. Try do to **exercises and case studies**
5. **Participate!**
6. If you can, **bring your laptop with R**

# Final note

This is my first teaching experience with this course. Suggestions and critique are welcome.

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 [github.com/filippogambarota](https://github.com/filippogambarota)