



BACKGROUND

After teaching statistics labs from a textbook, it was clear the students would benefit from a new resource that was free, up to date, and gave students the opportunity to engage with high-quality research studies.

LAB MANUAL

Includes 3 introductory lab activities for practicing R basics and data visualization with ggplot2 and 7 labs covering common null hypothesis significance tests, each with the following:

- Learning objectives.
- Study description (introduction, method, and analytic strategy).
- R script instructions.
- Discussion questions

INSTRUCTOR RESOURCES

I have shared instructor resources on request. They are not published on the website.

- RMarkdown slides for labs 1–3.
- Datasets.
- R code to simulate datasets.
- Answer key scripts.

Learn statistics using studies inspired by psychology research conducted at UBCO

“It [...] allowed me to direct my focus and effort to work that was of real pedagogical value.”

“The lab manual was a fabulous resource as an instructor. The activities and instructions were clear and helpful, and the students appreciated having the lab manual as a reference outside of class.”

IMPACT

- Used in PSYO 372 lab at UBCO.
- Saves \$105 per student in textbook fees.
- Portions have been adapted into another lab manual.
- Anecdotally, good feedback from students.

FUTURE DIRECTIONS

- Expand instructor resources to include detailed lesson plans for each lab.
- Revise as needed to keep up to date.
- Potentially add new topics.

ACKNOWLEDGEMENT

I gratefully acknowledge the financial support for this project provided by the Open Educational Resources Grant.



Visit the website: <http://rlabmanual.com>