

# LATIS R Quarto Workshop

A DISSERTATION (OR THESIS)  
SUBMITTED TO THE FACULTY OF THE GRADUATE SCHOOL  
OF THE UNIVERSITY OF MINNESOTA  
BY

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IN PARTIAL FULFILLMENT OF THE REQUIERMENTS  
FOR THE DEGREE OF  
MASTER OF (ARTS OR SCIENCE) DOCTOR OF  
(PHILOSOPHY/EDUCATION)

Advisor(s) Names

Month Year  
(of degree conferral, not necessarily the month you defend)



## Acknowledgements

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## Dedication

I dedicate this work to current and future graduate students learning how to do reproducible research. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sit amet dui eget mi varius dictum sit amet in justo. Aliquam euismod suscipit nunc placerat egestas.

## Abstract

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# 1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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## 2 Results

### 2.1 Results

In this section, we will present our analysis results using data from a study on volunteering (Cowles and Davis 1987). This data is available in the car data package (Fox, Weisberg, and Price 2022).

#### 2.1.1 Descriptive statistics and plots

First, we will look at descriptive statistics and visualizations of the data.

Table 2.1: Volunteering Counts by Sex

| sex    | volunteer | n   | Percent |
|--------|-----------|-----|---------|
| female | no        | 431 | 55.26   |
| female | yes       | 349 | 44.74   |
| male   | no        | 393 | 61.31   |
| male   | yes       | 248 | 38.69   |

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Table 2.2: Average personality scores by volunteering

| volunteer | Neuroticism_Avg | Neuroticism_SD | Extraversion_Avg | Extraversion_SD |
|-----------|-----------------|----------------|------------------|-----------------|
| no        | 11.42           | 4.82           | 11.96            | 3.83            |
| yes       | 11.54           | 5.00           | 12.94            | 3.91            |

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### 2.1.2 Do personality scores differ for those who do and do not volunteer?

Independent t-tests were used to determine whether personality scores differed by whether participants volunteered or not.

Extraversion differed between those who volunteered ( $\Delta M = -0.98$ , 95% CI  $[-1.39, -0.57]$ ,  $t(1270.12) = -4.69$ ,  $p < .001$ ). As shown in Table 2.2, volunteers were more extraverted on average than those who did not volunteer.

However, scores on neuroticism did not differ between groups ( $\Delta M = -0.13$ , 95% CI  $[-0.64, 0.39]$ ,  $t(1256.24) = -0.47$ ,  $p = .636$ ).

Figure 2.1: Distribution of extraversion scores by volunteer status and sex.

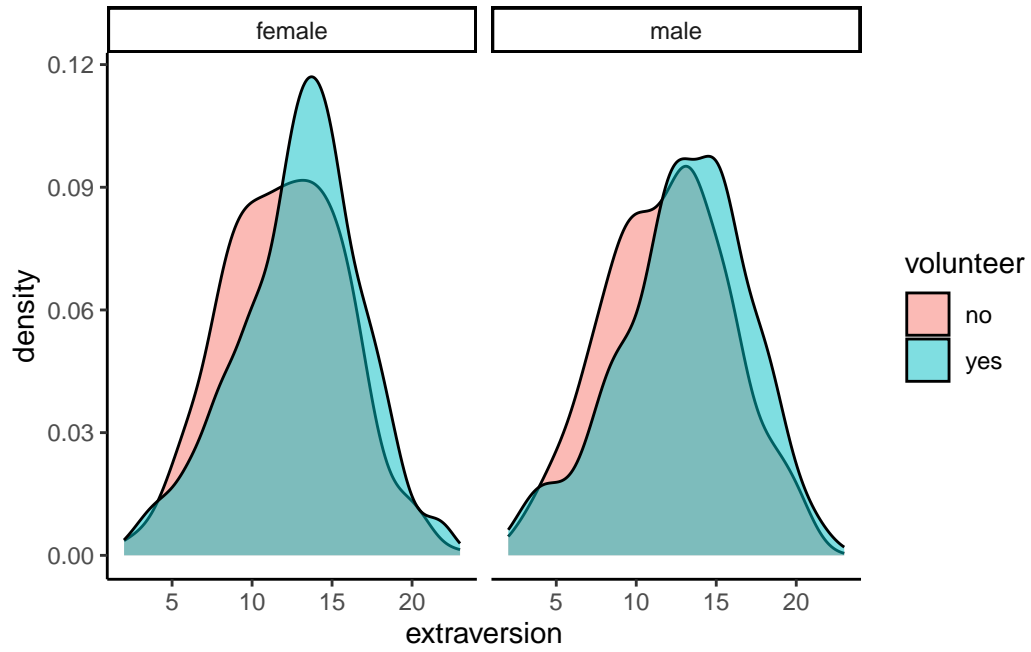
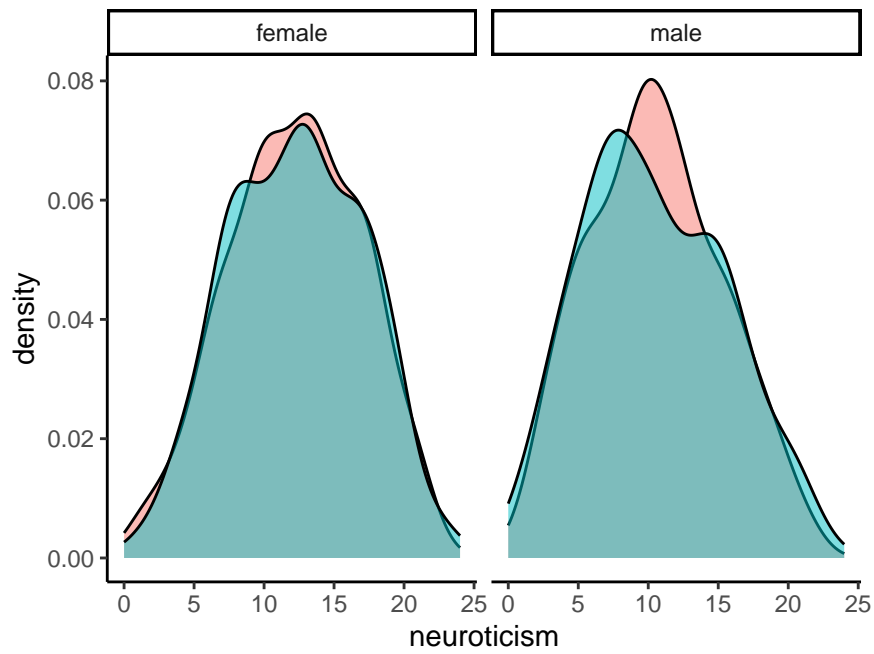


Figure 2.2: Distribution of neuroticism scores by volunteer status and sex.



### 2.1.3 What is the relationship between extraversion and neuroticism in this sample?

Do these scores correlate in this sample in the same way for volunteers and non-volunteers?

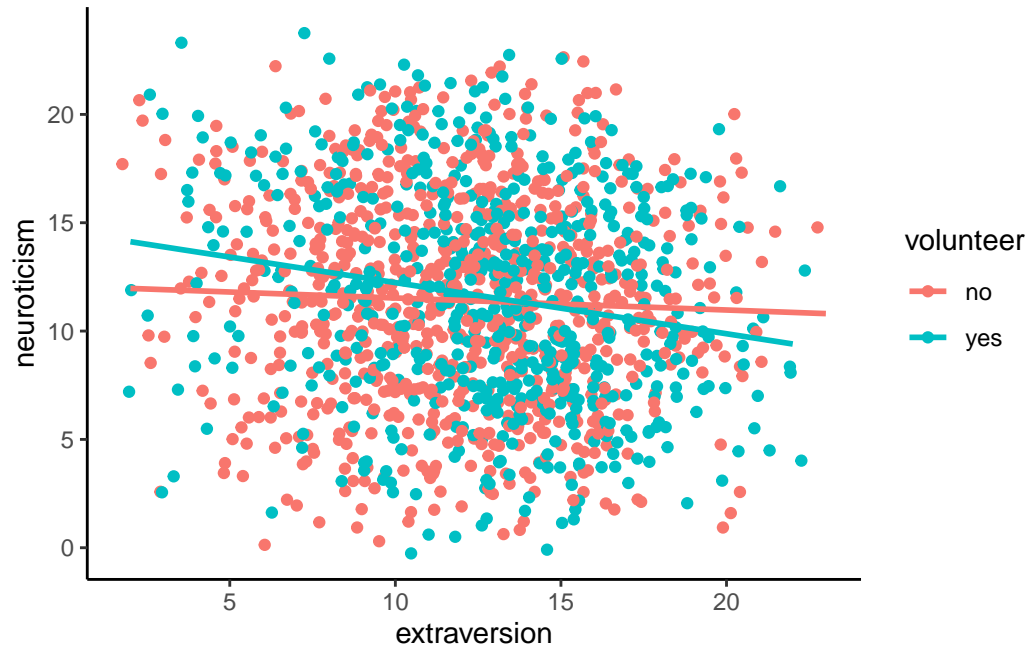


Figure 2.3: Relationship between extraversion and neuroticism in the sample.

| Predictor                   | <i>b</i> | 95% CI         | <i>t</i> | df   | <i>p</i> |
|-----------------------------|----------|----------------|----------|------|----------|
| Intercept                   | 12.08    | [10.99, 13.17] | 21.75    | 1417 | < .001   |
| Extraversion                | -0.06    | [-0.14, 0.03]  | -1.25    | 1417 | .211     |
| Volunteeryes                | 2.52     | [0.78, 4.25]   | 2.84     | 1417 | .005     |
| Extraversion × Volunteeryes | -0.18    | [-0.31, -0.05] | -2.68    | 1417 | .008     |

## 2.2 Conclusions

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## 3 Summary

In summary, this book has no content whatsoever.



## 4 Discussion

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## References

- Cowles, Michael, and Caroline Davis. 1987. “The Subject Matter of Psychology: Volunteers.” *British Journal of Social Psychology* 26 (2): 97–102. <https://doi.org/10.1111/j.2044-8309.1987.tb00769.x>.
- Fox, John, Sanford Weisberg, and Brad Price. 2022. “carData: Companion to Applied Regression Data Sets.” <https://CRAN.R-project.org/package=carData>.
- Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.