

# 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

This is the abstract, technically it's optional to include within the thesis PDF, but you must have one to submit online when you are ready to submit your final version. 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. Vivamus dignissim, orci sit amet molestie scelerisque, lectus diam tempus mauris, ac venenatis leo orci sed nisl. Pellentesque vitae gravida mauris. Mauris elementum quam ut odio mattis, sed tincidunt justo vulputate. Quisque vulputate orci et neque tincidunt convallis. Quisque at erat ultricies, aliquam nisi vitae, molestie erat. Vestibulum consectetur sem id lacus pellentesque placerat. Integer in vestibulum leo. Fusce pretium dolor in laoreet elementum. Curabitur lobortis blandit varius. Vestibulum tincidunt urna sed nunc bibendum, et varius ligula iaculis. Mauris hendrerit condimentum neque, elementum tincidunt nisl bibendum at. Praesent porttitor mi vel enim faucibus hendrerit. Nulla tincidunt enim urna, ut pellentesque arcu aliquet eget. Praesent sapien nulla, interdum ut nulla sed, varius imperdiet elit.

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# Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

# 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. This data is available in the car data package.

#### 2.1.1 Descriptive statistics and plots

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

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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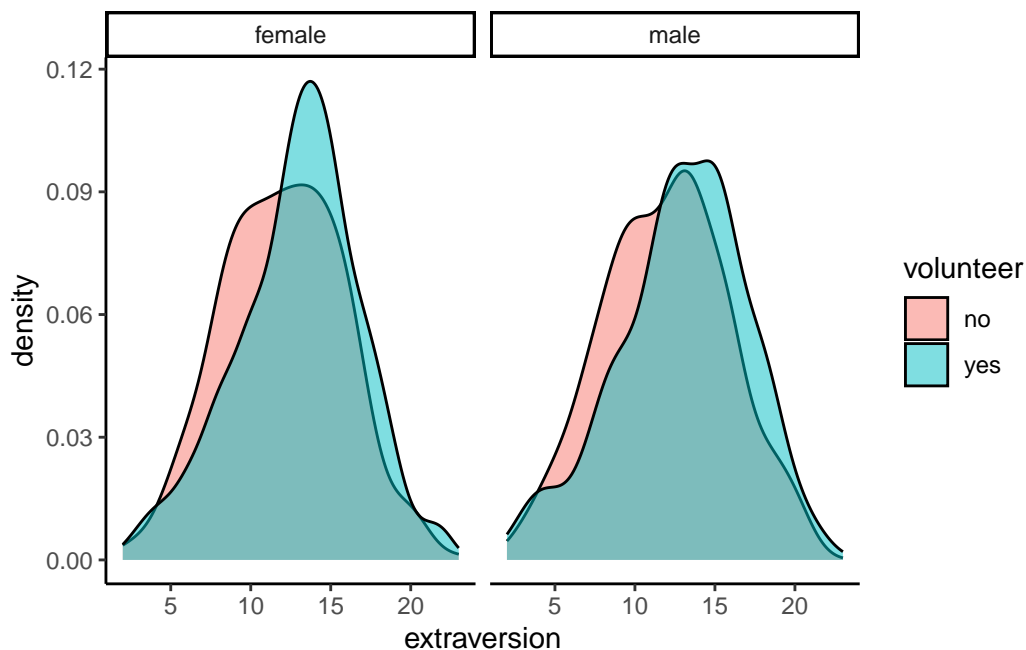
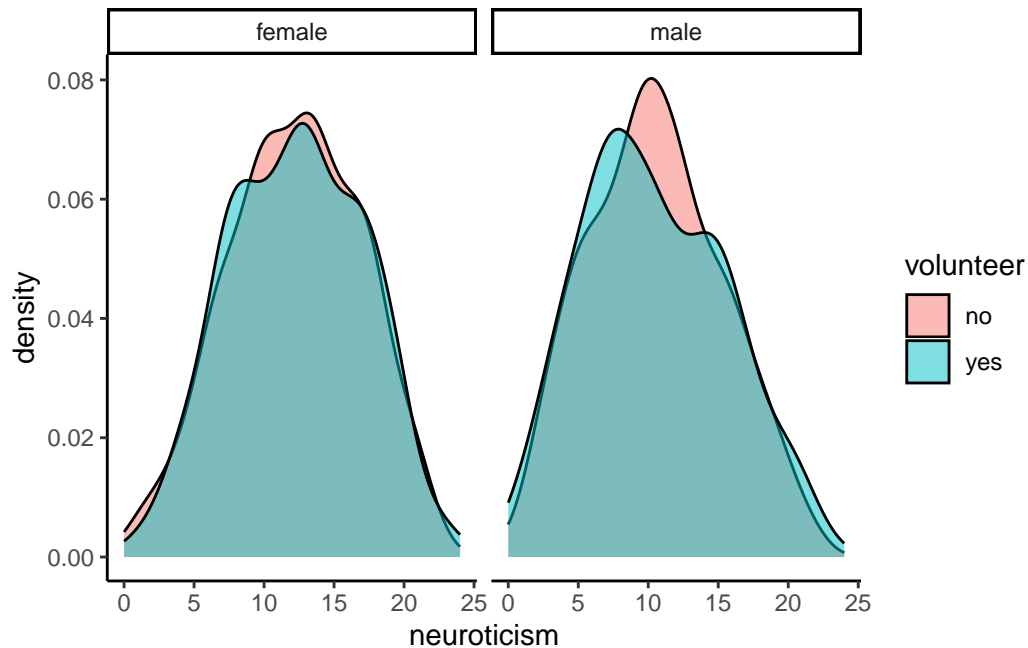


Figure 2.1: Distribution of neuroticism scores by volunteer status and sex.



### 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. As shown in the table above, volunteers were more extraverted on average than those who did not volunteer.

However, scores on neuroticism did not differ between groups.

### 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?

Call: `lm(formula = neuroticism ~ extraversion * volunteer, data = Cowles)`

Residuals: Min 1Q Median 3Q Max -12.2366 -3.5843 -0.1939 3.6400 11.9436

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) 12.07992 0.55551 21.746 < 2e-16 \* extraversion -0.05538 0.04422 -1.252 0.21070

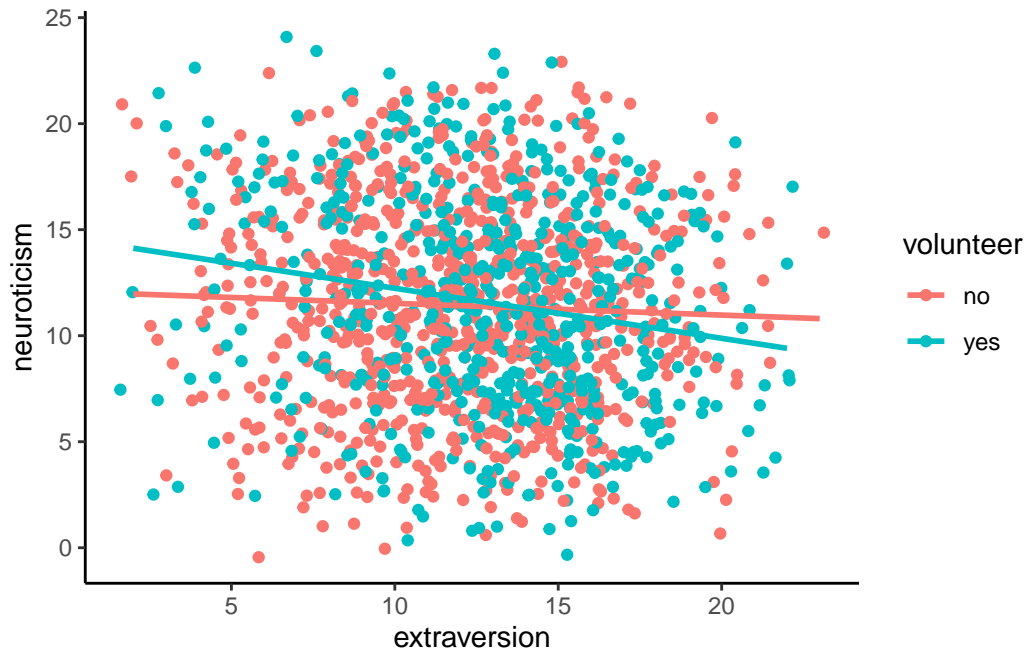


Figure 2.2: Relationship between extraversion and neuroticism in the sample.

```

volunteeryes 2.51709 0.88529 2.843 0.00453  extraversion:volunteeryes -0.18066 0.06750 -
2.676 0.00753 **

```

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Signif. codes: 0 ‘ ’ 0.001 ’ ’ 0.01 ’ ’ 0.05 ‘ ’ 0.1 ’ ’ 1

Residual standard error: 4.865 on 1417 degrees of freedom Multiple R-squared: 0.01612,  
Adjusted R-squared: 0.01404 F-statistic: 7.739 on 3 and 1417 DF, p-value: 3.967e-05

## 2.2 Conclusions

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## 3 Summary

In summary, this book has no content whatsoever.

## References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.