## Regression (II)

- 1 Multiple regression
- 2 Draft No. 2

### Where we are now

# Univariate statistics

- Introduction
- Dataset
- Variables

Assignment No. 1

corrected revised appended

# Bivariate statistics

- Associations
- Correlations
- Simple OLS

Assignment No. 2



# Statistical modelling

- Regressions
- Diagnostics
- Conclusion

Final paper



### Essential instructions

### Revise Draft No. 1

- go through corrections
- remove technical content
- rewrite until concision

Pay attention to paragraph limits and scientific style (esp. sources).

### Explore associations

- between DV and IVs (covariates, controls), or between two IVs
- with graphs and then with significance tests

Write up substantive results as sentences; cite significance tests and other statistics in brackets, e.g. ( $\rho = .7, p < .05$ ).

### The stab command

### Syntax: stab using Briatte\_Petev\_1, replace...

- su() summarizes continuous variables
- fre() summarizes categorical variables
- by() creates multiple tables for comparison

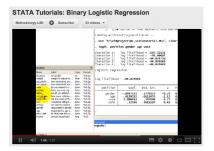
Add the corr option to also export a correlation matrix.

```
use datasets/nhis2009, clear

stab using Briatte_Petev_1, replace ///
   sum(age weight height) corr ///
   fre(sex uninsured marstat health) ///
   by(regionbr)
```

### Stata video tutorials





Source: LSE Methodology Institute, 2012.

## Paper template, structure and style

LYNN WHITE University of Nebraska-Lincoln

Writes of Passage: Writing an

Empirical Journal Article

your categorical variables as an appendix. Use the standard format shown at

#### Paculto

At each stage of your paper, write this section by following the specific instruction sets below.

#### (First draft: Descriptive statistics)

#### (Second draft: Association tests)

Write up a maximum of four paragraphs that report on the results of statistical tests of your

#### Appendix Table & Figure. Correlations

#### Appendix, Association

#### (Final paper: Regression analysis)

Write up a maximum of four paragraphs that report on regression output to model the

This article provides advice about preparing the organization of the paper will depend on

research reports for submission to professional journals in general and Journal of Marriage and Family in particular. In addition to working through all the major parts of a research paper. I provide some general advice about writing. editing and revising The article is intended to help new professionals improve the quality of their journal submissions and the likelihood of successful publication.

Writing research articles for professional journals is an art requiring good research skills, a clear sense of problem, and strong writing and editing skills. Assuming that years of graduate school have provided good research skills, I focus on the other requirements of writing a research article. My advice reflects the issues I most often raise when I review articles and 30 years of experience writing (and revising) research articles. I review guidelines for the major. sections of the typical empirical research report and conclude with some suggestions about writing professionally. The emphasis is on writing for Journal of Marriage and Family (JMF), but the general principles apply across journals and substantive areas

#### The format for a research paper is not set in stone. Each research problem is different, and

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WORKING TUROUGH A PERFARCH PARER

ory testing. In addition, authors have some latitude in developing a personal style. Generally, however, each article needs an introduction, a literature review, a statement of the problem, description of method results and conclusion The organization of the piece, the titles of various sections, and the relative weight of these sections vary from paper to paper and from journal to journal, but some general guidelines apply to reports of qualitative and quantitative research.

whether it is exploratory research rather than the-

An abstract should summarize your study. In a few short sentences, it should state the research hypothesis, the sample, sample size, data used, and the findings. A starting sentence such as "Using data from a national sample of n women interviewed by telephone in 2002, we examine the relationship between x and y" will allow you to squeeze a lot of information into a few words. In a bare-bones fashion, without hyperbole or exaggeration, state the findings of the study. Examine prior issues of your target journal for abstract style and be sure to comply with the maximum length specified by the journal (120 words for JMF).

#### Introduction

The introduction is critical to capturing the reader's attention and setting the tone for the paper. In approximately a single page, it should specify the research question, the data to be used, and the strengths of the design, and it

## Thanks for your attention

### Project

- Name your paper and do-file like Briatte\_Petev\_2
- Make sure to print your paper to a slick PDF

### Readings

■ *Stata Guide*, Sec. 11, 13 and 15

### **Practice**

- Replicate do-file
- Use its structure for Draft No. 2