

## LAB SESSION 8

### Outline of lab session:

- some follow-up from lecture (8L–16/17/18/19),
- Minitab software hint for two-way tables<sup>1</sup>: use menu  
\* Stat-Tables-Cross Tabulation and Chi Square,
- summary worksheet (3:30pm): S.8:7,9, S.11:2 (jobsatisf),
- individual work on the exercises:  
9:39,36,38,48,50,52; x:17; 9:40,20,44 (9:62;  
**final2014:1**; final2015:1) — note suggested order!

### Notes and questions for specific exercises:

- Don't forget the models and the conclusions! (two-way table analysis is more than computing the  $X^2$ -statistic!)
- 9.20: try Fisher's exact test (using software), and compare with the  $X^2$ -test,
- 9.36, 9.38: maybe use Graph-Bar Chart menu to display charts for status (and forget about displays for gender),
- 9.44: on Simpson's paradox (might be fun!),
- x.17: practice of model choice in 2-way tables,
- final 2014.1, final 2015.1: exam problems involving non-parametric methods and statistical reporting, resp.<sup>2</sup>

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<sup>1</sup> Stata: Stat-Summaries-Frequency Tables-Twoway table/Table calculator;  
R functions: `xtabs`, `chisq.test`, `fisher.test`.

<sup>2</sup> Rendle et al. (2007) paper accessible from media page.