

LAB SESSION 8

Outline of lab session:

- some follow-up from lecture (8L–14/15/16),
- Minitab software hint for two-way tables¹: use menu
* Stat-Tables-Cross Tabulation and Chi Square,
- summary worksheet (3:00pm): S.7:1b,c; S.8:7(4),8,9,
- individual work on the exercises:
9:39,36,38,48,50,52; x:17; 9:40,20,44 (9:62; AI:8;
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 the Graph-Bar Chart menu to display charts for status and gender, and combined,
- 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 reporting².

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

² Rendle et al. (2007) paper accessible from media page.