

# EXERCISE 1 — Family size and migration background in New York, 1880

1. Investigate family size in 1880 New York
2. Import the data (subsample of the census from New York)
3. Restrict the sample to household heads (relate = 1) aged 20 to 40
4. Compute the mean, median, and standard deviation of family size (fams)
5. Compute the average family size by country of origin
6. Plot the average family size by country of origin

# EXERCISE 2 – the education fertility nexus in predominantly agricultural communities

1. Using the “swiss” data investigate the relationship between education and fertility in “rural” and “urban” towns
  2. Import the data
  3. Generate a rough dichotomous variable indicating the prevalence of agricultural employment indicating “urban” if the share of employed in agriculture is below 50% and “rural” if above
  4. Compute the Pearson correlation between education and fertility separately for urban and rural
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1. Plot a scatter plot of the relationship between education and fertility by urban and rural