

## Homework 5

Due 8am Nov 2, 2016

Econ B2000, MA Econometrics

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Each student should submit a separate assignment, even if it is an identical computer file to the rest of your study group. When submitting assignments, please include your name and the assignment number as part of the filename. Please write the names of your study group members at the beginning of your homework.

1. What are the names of the people currently in your study group?
2. Using the CPS data, construct some interesting regressions on wage and salary (you might use the same subgroup as I did or you might change it up). Estimate a linear, quadratic, cubic and quartic specification of age on log wage. **Don't just give me raw output!** Make a nice table, like stargazer or in Stock and Watson (e.g. Chapter 9, Table 9.2). Make nice graphs and tests of groups of coefficients like I showed in class.
3. Next some interactions – your choice, try some interesting ones – you have data on gender, race, ethnicity, education, marital status, union, veteran, immigrant, detailed industry and occupation, state [GESTCEN], even metro area [GTCBSA]. Show me some nice output.
4. Next add some multilevel effects on some of those factors like industry, occupation, and/or state. Again show nice output.