Exam Empirical Labor Economics Uwe Jirjahn

Summer semester 2020

Choose <u>either</u> question Q.1 <u>or</u> question Q.2.

0.1

- Q.1.a Compare the random effects and the fixed effects approach.
- Q.1.b Discuss the problems entailed by weak instruments.
- Q.1.c Interpret and compare the following two wage estimations:

$$(1) \ lnWage = \alpha + 0.070 \ Schooling + \varepsilon \\ (0.002)$$

$$(2) \ lnWage = \alpha + 0.107 \ Schooling + 0.081 \ Experience - 0.0012 \ Experience^2 + \varepsilon \\ (0.001) \qquad (0.0001) \qquad (0.00002)$$

Standard errors are in parentheses.

Question 2

Please explain the differences between local average treatment effect, intention-to-treat effect, treatment effect on the treated, and treatment effect on the nontreated.

Note: If you answer both questions, we will only consider Q.1.