Empirical Labor Economics Retake Exam

Prof. Dr. Uwe Jirjahn M. Sc. Mehrzad B. Baktash

Summer Semester 2021 60 Points

Note: Choose either Part 1 or Part 2. If you answer both parts, we will only consider Part 1.

Part 1:

- 1.1. When do we use Instrumental Variables (IV) estimation and explain its assumptions. (20 points)
- 1.2. Discuss the issues associated with estimating the returns to schooling. (30 points)
- 1.3. Interpret and compare the following two wage estimations: (10 points)

(1)
$$lnWage = \alpha + 0.061 \ Schooling + \varepsilon$$
 (0.02)
(2) $lnWage = \alpha + 0.126 \ Schooling + 0.099 \ Experience - 0.006 \ Experience^2 + \varepsilon$ (0.012) (0.0002)

Standard errors are in parentheses.

Part 2:

- 2.1. Explain the difference between an instrumental variable and a proxy variable. (20 points)
- 2.2. Discuss instruments for estimating the relationship between family size and schooling. (30 points)
- 2.3. Interpret and compare the following two wage estimations: (10 points)

(1)
$$lnWage = \alpha + 0.061 \ Schooling + \varepsilon$$
 (0.02)
(2) $lnWage = \alpha + 0.126 \ Schooling + 0.099 \ Experience - 0.006 \ Experience^2 + \varepsilon$ (0.012) (0.0002)

Standard errors are in parentheses.