The Impact of Income and Socioeconomic Characteristics on Education: A Gender Differences Analysis







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- Knowledge stimulates the stock of human capital (Barro et al., 2013)
- Gender equality in education helps to achieve MDGs (World Bank 2019)
- Pakistan: towards UPE and development in education sector (Chaudhary et al., 2009)
- Lowest expected years of schooling
- Out-of-school children in millions
- Government initiatives (APLs, UFGE, etc.)
- Bias treatment and cost-effective analysis
- Parental preferences
- Time allocation
- Permanent vs Temporary residents
- Per capita income & education investment

- capita income, individuals and socioeconomic characteristics of the households
- To implement an empirical strategy for dealing potential endogeneity for non-linear models by exploiting exogenous variation of income shocks, windfall income and family background characteristics with 2SRI approach
- To capture discrimination and bias treatments by different parameters of inequalities and gender effect by Oaxaca-Type decomposition

Previous Studies

- Economic development between developed and developing countries (Klasen 2015)
- Gender discrimination in achieving first class degree (Robb et al., 2012)
- Difference in performance by budget (Lloyd et al. 2005; Sathar et al., 2005)
- Bias treatment by personal and external communal factors (Kingdon 2002)

Data, Model & Variables

- Micro data from the Pakistan Social and Living Standards Measurements (PSLM) survey, from 2005 to 2016 (Survey rounds 2005-06, 2007-08, 2010-11, 2011-12, 2013-14 and 2015-16) for 80000 households approximately
- Ordered Logit Model and Logit Model Dependent variables:
- *Education attainment* =

$$0 = None education$$

- 1 = Primary education (Grade 1 5)

$$2 = 5$$
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 $3 = Tertiary education$

- *Current enrollment* =

Explanatory variables: Individual, Household and community characteristics Inequality Parameters: Gini, AYS, SD, Gender gap, Gender Difference, Gender gap The structural model for latent education is, $Y_i^* = x_i\beta + \varepsilon_i$ econometric model, Education Achievement = $f(PC Income, Individuals, HH, Provinces + \varepsilon_i)$

0 = otherwise









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2 = Secondary education (Grade 6 - 12)= Tertiary education (Grade 13 - 16) 1 = Currently enrolled in school.







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• Positive relationship between education achievement and per capita income and significant transformation (Jacob 2002), educational transition is higher from primary to secondary education attainment • Probability of education attainment of the girls is equally significant as boys however, associated socioeconomic characteristics are playing major role in the related marginal differences (Orepoulos et al., 2007)

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significantly improve boys' education attainment and current enrollment • Gini coefficient and educational inequalities provide more education achievement gap among girls • 61 and 41 percent explained gender disparities in education attainment and current enrollment by Oaxaca decomposition; however, most of the variations remain unexplained • Effect of age in boys determine economic returns at higher levels (Freedom et al., 1990) • Occupational heterogeneity: Lower-income families provide higher aspirations (Chowdary et al., 2011) • Alternative specification: Girls' education likely to reduce income 7 times more than boys

Policy Implications

• Reforming education policies by prioritizing rural and tribal areas • Allocation of incentives, scholarships and financial support on merit for talented and hardworking females • Controlling gap between having enrolled and not having enrolled by considering low-income groups of the society • Improving supply of education with mobile learning and by collaboration of federal and local governments • Economic policies that can facilitates the income generation and transitional effect of education for gender equity



emonstrates the trend of per capita income from 2007-2016. The statistics provide sharp decline after owever, it gradually improves from 2014. The share of the income is positively associated with

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