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The Impact of Free Secondary Education: Experimental Evidence from Ghana'

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In 2008, 682 recondary who of scholarships were awarded by lottery arong 2,004 Ghanaian students (uped 17 on merage) who were admitted to a specific school and track but could not immediately enroll, in most cases due to lack of funds. We use follow-up data collected until 2016 to document downstream impacts by age 25. For the whole sample, scholarship winners were 20 percentage points (55%) more likely to complete secondary school, obstaided 126 more years of secondary education, stored an average of 0.15 standard deviations genater on a reading and math test, and adopted more preventative health behavior. Women who received a scholarship had 0.217 fewer children by age 25. Scholarship winners were 450 3 percentage points (30%) more likely to have ever emoded in tertiary education. Despite the fact that they were 25 percentage points (10%) more likely to be emodled in school at the time of the last survey, they were 5.5 percentage points (10%) more likely to have positive earnings and had significantly higher (hyperbolic sine) earnings. For students admitted to vocational tracks (competing 60% of the surple) scholarships (ed not increase tertiary education, which simplifies the interpretation of labor market outcomes. In this subsample, scholarships increased the likelihood of earning money by 8.5 percentage points (10%) and increased total earnings by 19%. The entires the distance in this pubsample is 1.7%. For students admitted to egtimated financial rate of return to education in this subsample is 1.3%. For students admitted to academic majors, acholarships increased the chance of having ensoled in settiny education by 5.3 percentage point on a hape of 11 percent. This effect is divisor overwhelmingly by women, who acady double their rate of tertiary emplicent and fully eath up with men. We cannot reject the hyp that among those admitted to enablerite tracks, scholarships did not affect average labor participation and earnings by age 25, but since more scholarship winners than non-winners to in school as of 2016, it is too early to definitively assess labor market impacts in this populatie

The Impact of Free Secondary Education: **Experimental Evidence from Ghana**

In 2008, 682 secondary school scholarships were awarded by lottery among 2,064 Ghanaian students (aged 17 on average) who were admitted to a specific school and track but could not immediately enroll, in most cases due to lack of funds. We use follow-up data collected until 2016 to document downstream impacts by age 25. For the whole sample, scholarship winners were 26 percentage points (55%) more likely to complete secondary school, obtained 1.26 more years of secondary education, scored an average of 0.15 standard deviations greater on a reading and math test, and adopted more preventative health

⁵ This mandomized trial is registered in the The American Economic Association's registry for randomized controlled trials under RCT ID ALABCTR 0000015. The study personal was approved by the IEBs of UCLA, Stanford, MIT and IPA. We thank the Glause Inducation Service and IPA Guan for their cubilbootnies, and Standards Addie for extensing prepar management. We are graveful to Islin Ahnsed, Madelsee Dubon, Jins Kola, Ryun Keight, Mark Walsh, Vistor Postigates and Nicolas Stude for outstanding senseth assistance. The Banding for this study was provided by the NIH (Grass 1960) IEB019922; the IGC, Su, the Partnership for Child Development and the Nike Foundation. We thank then, without implicating them, for making this study possible. Dupus also gravefully acknowledges the support of the NIF (see and market 125:1657).
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behavior. Women who received a scholarship had 0.217 fewer children by age 25. Scholarship winners were also 3 percentage points (30%) more likely to have ever enrolled in tertiary education. Despite the fact that they were 2.5 percentage points more likely to be enrolled in school at the time of the last survey, they were 5.5 percentage points (10%) more likely to have positive earnings and had significantly higher (hyperbolic sine) earnings. For students admitted to vocational tracks (comprising 60% of the sample) scholarships did not increase tertiary education, which simplifies the interpretation of labor market outcomes. In this subsample, scholarships increased the likelihood of earning money by 8.8 percentage points (16%) and increased total earnings by 19%. The estimated financial rate of return to education in this subsample is 13%. For students admitted to academic majors, scholarships increased the chance of having enrolled in tertiary education by 5.3 percentage points on a base of 11 percent. This effect is driven overwhelmingly by women, who nearly double their rate of tertiary enrollment and fully catch up with men. We cannot reject the hypothesis that among those admitted to academic tracks, scholarships did not affect average labor market participation and earnings by age 25, but since more scholarship winners than non-winners were still in school as of 2016, it is too early to definitively assess labor market impacts in this population.

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