## Identifying and estimating the human capital produced by a university degree

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28th September 2021

## Abstract

Recent work has highlighted the differing returns that individuals from different social groups experience following a university degree. Combining these insights into the heterogeneity in returns to higher education with insights on the technology of skill formation from another important recent literature, we estimate the wage returns to a university degree along a fundamental dimension: prior human capital. Employing a novel methodology exploiting recent advances in the identification of mixture models, we group individuals by their prior human capital and identify and estimate the wage returns to a university degree by group. Applying our method to data from a UK cohort study, our findings reflect recent evidence that skills and ability are multidimensional.

**Keywords**: Mixture models; Distributions; Higher education; Wages; Human capital.

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