Analysis Plan for Audit Study on Community College Stigma[*]

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September 11, 2019

- Basic analysis:

  - $I(\text{call-back}) = \beta_0 + \beta_1 CC + \beta_2 GPA + \beta_3 I(\text{Selective}) + \beta_4 \text{Accounting} + \boldsymbol{\delta}\text{Geography}$
  - run regression without clustering and with clustering at the resume level.
  - Geography is a vector of indicators for the four geographic areas: west coast, south, midwest, and northeast.

- Heterogeneity and other analysis:

  - Heterogeneity in occupation:
    $I(\text{call-back}) = \beta_0 + \beta_1 CC + \beta_2 GPA + \beta_3 I(\text{Selective}) + \beta_4 \text{Accounting} + \beta_5 CC * \text{Accounting} + \boldsymbol{\delta}\text{Geography}$
  - Heterogeneity in selectivity of four-year institution:
    $I(\text{call-back}) = \beta_0 + \beta_1 CC + \beta_2 GPA + \beta_3 I(\text{Selective}) + \beta_4 \text{Accounting} + \beta_5 CC * I(\text{Selective}) + \boldsymbol{\delta}\text{Geography}$
  - Heterogeneity in quality of employer:
    $I(\text{call-back}) = \beta_0 + \beta_1 CC + \beta_2 GPA + \beta_3 I(\text{Selective}) + \beta_4 \text{Accounting} + \beta_5 \text{Employer\_Score} + \beta_6 CC * \text{Employer\_Score} + \boldsymbol{\delta}\text{Geography}$
  - Heterogeneity in geography / how common community colleges are in the local workforce
    $I(\text{call-back}) = \beta_0 + \beta_1 CC + \beta_2 GPA + \beta_3 I(\text{Selective}) + \beta_4 \text{Accounting} + \beta_5 \#CC + \beta_5 CC * \#CC + \boldsymbol{\delta}\text{Geography}$
    where $\#\text{CC}$ is the share of local workforce in community colleges
  - To get an idea of the quantatative importance of the result, we estimate the correlation between GPA and call back rates.
    $I(\text{call-back}) = \beta_0 + \beta_1 GPA$

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[*] This analysis plan is made before the end of the data collection process. No data collected so far has yet been analyzed in any ways.
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