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IZA DP No. 13972

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# ABSTRACT

# Do Inclusive Education Policies Improve Employment Opportunities? Evidence from a Field Experiment\*

In labor markets where disadvantaged students are discriminated against, meritbased college scholarships targeting these students could convey two opposing signals to employers. There is a positive signal reflecting the candidate's cognitive ability (talented in high-school and able to maintain a high GPA in college) as well as her soft skills (overcoming poverty). There is also a possible negative signal as the targeting of the scholarship indicates that the beneficiary comes from a disadvantaged household. We conduct a correspondence study to analyze the labor market impact of an inclusive education program. Beca 18 provides merit-based scholarships to talented poor students admitted to 3-year and 5-year colleges in Peru. We find that the positive signal dominates. Including information of being a scholarship recipient increases the likelihood of getting a callback for a job interview by 20%. However, the effect is much smaller in jobs and careers where the poor are underrepresented, suggesting that the negative signal of the scholarship is not zero.

JEL Classification:C93, I23, J7, J15Keywords:employment, inclusive education, correspondence study,<br/>discrimination

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#### 1. Introduction

Worldwide, students from disadvantaged backgrounds are largely under-represented in higher education (UNESCO, 2020; Ferreyra et al., 2017), despite the documented high skill earnings premium (Patrinos and Psacharopoulos, 2020; Goldin and Katz, 2008). This is more salient in developing countries, where returns to postsecondary education are higher and credit constraints are more pronounced than in advanced economies. New work has started to emerge on the role of financial aid and student loan programs on access to college for high-achieving low-income students in middle-income countries (e.g., Londoño-Vélez et al., 2020; Solis, 2017).<sup>1</sup> Yet, little is known about the labor market returns of these merit-based scholarships.

To address this gap, we study the labor market impact of a scholarship for talented but disadvantaged students in Peru. This program, called *Beca 18* ("Scholarship 18"), was created in 2011, and is the largest public program financing higher education in the country. *Beca 18* is a highly competitive scholarship. Only five percent of applicants receive it every year. It is also a very generous scholarship to attend selected public or private colleges in the country. It covers full tuition costs plus all living expenses, books, moving costs, a laptop, health insurance and academic tutors, if needed. To satisfy its mandate to reduce the socioeconomic gap in access to higher education in Peru, *Beca 18* targets students from the bottom two quintiles of the country's poverty assessment, in which indigenous groups are severely over-represented.

However, in labor markets where indigenous groups are discriminated against as in the case of Peru (e.g., Galarza and Yamada, 2014, 2017), a merit-based scholarship for disadvantaged students

<sup>&</sup>lt;sup>1</sup> For research on these programs in advanced economies see for example Angrist et al. (2014), Bettinger et al. (2019), Fack and Grenet (2015).

could convey two possible signals to employers. First, there is a positive signal in terms of ability. A *Beca 18* beneficiary had to be a top student in high school to become eligible and to score very well in a qualifying standardized test and be admitted to a selective college to be awarded the scholarship. She had to maintain a high GPA during college as well. All these sends a signal of strong cognitive skills. Beneficiaries also had to overcome poverty, showing resilience as well as important "soft" skills. Second, there is a negative signal due to poverty and ethnicity. The targeting of the scholarship clearly indicates that the recipient comes from a disadvantaged household, which correlates with a lower social status and indigenous background. Thus, the impact of *Beca 18* to employers would depend on how the market values these two competing signals. If the ability signal is larger than the poverty signal, *Beca 18* will have a positive impact on employment. Otherwise, it would hurt candidates.

If beneficiaries *perceive* that the poverty signal dominates, they will avoid listing *Beca 18* in their resumes. We found evidence supporting this view. From a sample of resumes from actual beneficiaries, less than 5% listed the scholarship. Those who did it, place it as the last item in their resumes and without highlighting it. However, not including this award in their resume could be an inefficient behavior if employers value the ability signal much more than the poverty signal. Thus, we need to test how the labor market reacts to the *Beca 18* signal.

We implement a correspondence audit study to examine the impact of *Beca 18* on employment opportunities for technical (for 3-year college graduates) and professional occupations (5-year college graduates).<sup>2</sup> Nearly 3500 fictitious resumes were sent in response to 877 job ads in Lima,

 $<sup>^{2}</sup>$  As explained below, Peru's high school education ends in grade 11 (not 12) and the higher education system has 3-year (technical) and 5-year (professional) colleges.

Peru's capital and largest labor market (concentrating 44% of the country's labor force). For each job we sent four resumes, randomly assigning all elements of the resumes, including the listing of *Beca 18*. These resumes mimicked those from true beneficiaries of *Beca 18* in terms of style and structure, except that we make the information about the scholarship salient. We find that listing *Beca 18* in the resume increases the likelihood to be called back for a job interview by 20%. This finding implies that the ability signal exceeds the poverty signal. Beneficiaries of *Beca 18* are leaving "money on the table" by not listing the scholarship in their resumes.

To understand better the role of each signal, we conducted a heterogeneity analysis dividing the sample by jobs, careers and place of residence. The intuition is that the negative signal from poverty will be less (more) salient in the subgroups where the poor are (under-) over-represented. We find evidence supporting this prediction. For example, we show that gains from listing *Beca 18* in the resume is concentrated among 3-year college graduates, where the poor are more likely to graduate from. The gains in callback rates increases to 39% in this subsample. For graduates from 5-year colleges, where the poor are under-represented, the effect is just 6% and not statistically different from zero. These findings suggest that the negative signal is not zero when the poor are underrepresented.

One potentially additional impact of *Beca 18* is the reduction of ethnic gaps, not only in terms of college enrollment and graduation rates, but also in labor market outcomes, a topic over which the literature is particularly scarce. Using surnames as an ethnic signal, we find that the return to *Beca 18* is the largest among job applicants with paternal *and* maternal indigenous surnames, a result suggesting a greater ethnic equality in the access to the labor market.

We contribute to two strands of the literature. First, the literature on the impact of financial aid and loan programs for higher education has largely focused on enrollment (see, e.g., Angrist et al. 2014; Bettinger et al. 2019, and Fack and Grenet 2015, for developed countries, and Londoño-Velez et al., 2020; Laajaj et al., 2018 and Solis, 2017, for developing countries). We contribute to this area of study, by examining how the labor market responds to a merit-based and need-based scholarship program. That is, we extend the analysis of the impact of these type of programs beyond college graduation, a topic over which the literature in developing countries is particularly scant.

Second, the fast-growing literature on correspondence studies (CS) has been widely used to detect ethnic and gender discrimination in the labor market, both in developed and developing countries (see Neumark, 2018 and Baert, 2018 for recent reviews). While their results are revealing, it is unclear from existing CS which policy prescription to use to increase employment opportunities for disadvantaged groups. This is particularly relevant since anonymous job applications do not seem to help as much, as Behaghel et al. (2015) shows for France. We evaluate the effect of an inclusive education policy on higher access to the labor market, as an alternative to using anonymous resumes. We posit that, while an affirmative action policy could reinforce discrimination (Coates and Loury, 1993), sending a signal of ability could address, at least partly, the issue, depending on how the poverty and ability signals are perceived in the labor market.<sup>3</sup> We are not aware of other CS examining this labor market effect of similar programs.

<sup>&</sup>lt;sup>3</sup> We focus on hiring because this program is too young as to analyze other labor market outcomes, such as its impact on wages. This extension to analyze the human capital impact of the program is an important topic for future research.

The remainder of the paper proceeds as follows. Section 2 provides information about the *Beca 18* program (coverage, requirements, and outreach). Section 3 presents our experimental design. Section 4 introduces our data. Section 5 discusses our results and section 6 concludes.

#### 2. Beca 18 program

Created in late 2011, *Beca 18* began to operate the following year as the first full scholarship program for higher education funded by the national government in Peru.<sup>4</sup> With the aim to reduce the poor's unequal access to higher education, *Beca 18* funds full tuition and related expenses of young talented students coming from poor households who have been admitted to selective private and public universities (5-year college degrees) and technical institutions (3-year college degrees). *Beca 18* granted 65.826 scholarships from 2012 to 2019, with some changes in administrative issues of the application but keeping its focus on talented students from disadvantaged backgrounds. About two thirds of the scholarships were granted to fund 3-year technical degrees.

All Peruvian nationals attending—or graduated from—a public high school, interested in applying for a scholarship need to pass a pre-selection process, summarized in Appendix Figure 1. The eligibility criteria is based on age (under 22), household poverty condition (verified by SISFOH, the national system of household targeting for social programs), and academic merit (top third in GPA in the last two years prior to their application).<sup>5</sup> In addition, *Beca 18* pre-candidates must take a national test of math and reading comprehension, in order to qualify for the final round. The final ranking considers test scores plus some bonus points awarded to applicants in priority

<sup>&</sup>lt;sup>4</sup> Prior to *Beca 18*, PRONABEC, the Ministry of Education office in charge of administering the program, had only had short-term loans financing tuition expenses for less than a year.

<sup>&</sup>lt;sup>5</sup> Students can apply during their senior year (11<sup>th</sup> grade) but also after high school graduation as long as they are younger than 22.

situations including indigenous groups.<sup>6</sup> As shown in Appendix Figure 1, using numbers from the 2019 process, only about one tenth of applicants (4,539 out of 43,906) made it to this stage, given the budget constraint of the program. An additional third of applicants were eliminated in the final round of the process, considering admission and quality of the colleges and careers chosen.<sup>7</sup> Only 3,139 scholarships were ultimately granted that year, yielding a success rate of 5.19%.

*Beca 18* covers full tuition costs of attending a public or private 3-year or 5-year colleges. It also covers course materials, tuition to study English (only for 5-year colleges), academic tutoring, and a laptop, in addition to health insurance, living expenses (food, housing), local transportation, and a round-trip ticket to the place of residence, if applicable.<sup>8</sup>

Merit-based higher education scholarships targeting to the poor are also available in other Latin American countries, such as Brazil, Chile, Colombia, and Costa Rica, though we are not aware of studies of the effect of those scholarship programs on labor market access. Table 1 summarizes the characteristics of relatively large public programs for higher education scholarships in the region. With 84.8 U.S. million dollars of budget spent in 2019, *Beca 18* ranks first in terms of relative fiscal effort devoted to finance the program (0.27% of central government budget), though

<sup>&</sup>lt;sup>6</sup> Other criteria rising eligibility are disability, active firefighter (or children of firefighter), volunteers registered by the Ministry of Women and Vulnerable Populations, farmers, and Afro-descendant population.

<sup>&</sup>lt;sup>7</sup> Quality indicators include the college ranking (which is based on scientific production, faculty with undergraduate or graduate degrees, and instructor/student ratio), graduation rates, and average wages of graduates. All these indicators are used to construct a list of prioritized colleges, whose ranking is used to award the bonus points for college quality. In terms of careers, bonus points are awarded in direct relationship to their economic returns, and to whether those careers belong to areas of science and technology prioritized in the 2006-2021 National Strategic Plan of Science, Technology, and Innovation for the Competitiveness and Human Development (life sciences, biotechnology, material technology and science, information and communication technologies, environmental science, and basic sciences—mathematics, chemistry physics, biology, geology, and geophysics).

<sup>&</sup>lt;sup>8</sup> A significant proportion of the scholarship recipients are born in a rural place and choose to migrate and study in a college located in Lima. As of 2016, only 13% of the recipients reside in Lima but 53% of all recipients chose to attend a college in Lima.

it is the smallest program in the sample, both, in terms of absolute numbers of beneficiaries (15.619

in 2019) and relative to total enrollment in higher education (0.87%).

Program	Country	General Qualification Requirements	Number of Beneficiaries (Latest Year Available)	Number of Beneficiaries / Total Higher Education Students (%) <sup>a</sup>	Annual Government Expenditure on the Program (millions of U.S. dollars)	Program Expenditure / Central Government Expenditure (%)
ProUni	Brazil	<ol> <li>Gross family income of up to 3 minimum wages.</li> <li>Minimum score in the Exame Nacional do Ensino Médio.</li> </ol>	224,921 (2019)	2.66	549.4	0.09 <sup>b</sup>
Beca Bicentenario	Chile	<ol> <li>Belong to bottom 70% of household income distribution.</li> <li>Minimum score in the University Selection Test.</li> <li>Be enrolled in an eligible institution and educational field.</li> </ol>	34,755 (2017)	5.27	140.5	0.22
Ser Pilo Paga	Colombia	<ol> <li>Be registered in the System of Selection of Beneficiaries for Social Programs (SISBEN).</li> <li>Minimum score in the national test "Saber 11".</li> <li>Be admitted in an eligible institution.</li> <li>Poverty or extreme poverty condition</li> </ol>	40,000° (2018)	1.79	253.9	0.04
Beca Universitaria	Costa Rica	<ul> <li>accredited by SINIRUBE.</li> <li>2) High academic performance (last period grades).</li> <li>3) Be enrolled in an institution and in a career recognized by CONESUP.</li> </ul>	4,522 (2019)	2.17	5.9	0.15
Beca 18	Peru	<ol> <li>Poverty or extreme poverty condition accredited by SISFOH.</li> <li>Top third in GPA in last two years of secondary education and minimum score in the pre-selection test.</li> <li>Be admitted in an eligible institution and educational field.</li> </ol>	15,619 (2019)	0.87	84.8	0.27

### Table 1: A Sample of Government-Funded Higher Education Scholarship Programs in Latin America

Sources: Banco Central do Brasil, Ministério da Educação (Brazil), Ministério da Economia (Brazil), Banco Central de Chile, Ministerio de Educación (Chile), Consejo Nacional de Educación (Chile), Ministerio de Hacienda (Chile), Superintendencia Financiera de Colombia, Ministerio de Educación (Colombia), Ministerio de Hacienda y Crédito Público (Colombia), Banco Central de Costa Rica, FONABE, Programa Estado de la Nación (Costa Rica), Ministerio de Hacienda (Costa Rica), SBS, Ministerio de Economía y Finanzas (Peru), PRONABEC, SUNEDU, Ministerio de Educación (Peru), and World Bank (2019).

Notes:

<sup>a</sup> In the case of Brazil, Costa Rica and Peru, the figures for total student population are of 2018, 2015 and 2016, respectively.

<sup>b</sup> The central government expenditure figure is of 2018. In the first three quarters, spending in 2018 is similar to that of 2019.

<sup>c</sup> Target number according to government announcements.

There are several potential effects that a scholarship program such as *Beca 18* can have. In the short-term, it can increase higher education enrollment rates for ethnic minorities (indigenous and afro-descendants) and it may also increase graduation rates (thus increasing human capital accumulation). In the medium-term, the program may increase access to the labor market for poor people. And in the long run, it may ultimately reduce the ethnic income gap. We study the effect of *Beca 18* on the increase in employment opportunities. As described before, we posit that being recipient of *Beca 18* sends (at least) two signals to the market: the job applicant is talented (positive signal) but poor (negative signal). In this framework, the impact of *Beca 18* on the labor market will depend on how employers read those signals: if the ability signal is stronger (weaker) than the poverty signal, *Beca 18* will have a positive (negative) effect on hiring chances.

#### 3. Experimental design

We use a paired correspondence study design and sent four resumes in response to each selected job ad. We use the resume randomizer by Lahey and Beasley (2009), v.31, to construct all resumes, whose format and structure mirror those used by real *Beca 18* recipients obtained thanks to PRONABEC.<sup>9</sup> Two key variables for the experimental operation include the allocation of being recipient of *Beca 18* and surnames, our major ethnic signal. Randomly assigned, two resumes indicated the job applicant had received *Beca 18*, while the remaining two did not. In terms of the surnames, each full name in the resume included a paternal and maternal surname, as is common in Peru.

<sup>&</sup>lt;sup>9</sup> We did not include photographs in our resumes, which is not uncommon in Peru.

As explained below in more detail, we have four equally likely combinations of paternal-maternal names by combining indigenous and mixed-race surnames: Indigenous-Indigenous (I-I), Mestizo-Indigenous (M-I), Indigenous-Mestizo (I-M), and Mestizo-Mestizo (M-M). In terms of gender, each resume had a 50% chance of listing a woman's name, from a common pool regardless of the type of surnames.<sup>10</sup> All selected jobs were either for technical (requiring a 3-year college degree) or professional (5-year degree) occupations. We did not select low-skilled occupations as we focus on college graduates.

#### 3.1 Beca 18 and education

Half the resumes (per batch) sent to a job included the *Beca 18* signal. We did this by assigning two possible wordings (randomly). The first wording said verbatim "Premios: Beca 18 (PRONABEC)" (Awards: Beca 18 (PRONABEC)). The second said "Beneficiario del Programa Nacional de Beca18 – PRONABEC" (Beneficiary of the National Program Beca 18 – PRONABEC). We use the male variation for "becario" in all resumes. While not gender neutral, this is a common practice in Peru. The selected statement was listed right below the name of the college assigned to the resume. We used administrative data to select the 3-year colleges—called Institutos de Educación Superior, or *Institutos*, for short—and the 5-year colleges (called *universidades*). This selection, as well as that of the college majors, largely responded to the characteristics of the job vacancies posted.<sup>11</sup> We further gathered information about whether the college and/or major was prioritized or not prioritized by the National Program of Scholarships

<sup>&</sup>lt;sup>10</sup> To our best knowledge, the performance of mestizos in labor access has not been analyzed elsewhere, with the only exception of Arceo-Gomez and Campos-Vasquez (2014) for Mexico.

<sup>&</sup>lt;sup>11</sup> The set of majors financed by *Beca 18* is sufficiently broad as to not impose a constrain in the set of occupations matched with the job vacancies available every week.

and Education Loans (PRONABEC, for its acronym in Spanish), the public office from the Ministry of Education running the *Beca 18* Program.

#### 3.2 Signaling indigenous status

In Peru, as in many other Latin American countries, the use of two surnames (paternal and maternal, in that order) is widespread, for official identification purposes and also for job applications. In the latest population census, around a quarter of the population self-identifies as indigenous, with Quechua and Aimara being the largest groups among them. These groups have distinctive surnames and have been used in the literature before (e.g., Galarza and Yamada, 2014, 2017).

We used two ways to signal indigenous status: surnames and whether the job applicant went to a high school in a province outside of Lima, which is more likely to be populated by a larger share of indigenous people. In the case of surnames, an innovation of our experiment is that we can assess different degrees of our indigenous status on callbacks. In particular, we selected Indigenous (I) and *mestizos* (mixed race) (M) surnames and created four combinations of paternal - maternal surnames: M-M, M-I, I-M, and I-I (See Figure 2). We thus can compare the *mestizo* job applicant (M-M) with an Indigenous job candidate of any of the three types (paternal only: I-M, maternal only: M-I, or both: I-I).

Our second signal is the high school graduation in an Indigenous/rural place (a province outside of Lima). Except for the M-M category, in the remaining three categories, each resume had a 2/3 chance of including the name of a high school located in a province, outside Lima. This signal may be considered a weaker signal of Indigenous status. To maximize our statistical power in the

innovative aspect of our study, we sent four resumes for each job ad, each with one of the four combinations of surnames mentioned earlier.

Α	В
Resume	Resume
Mestizo	Indigenous (paternal only)
Address and contact information	Address and contact information
Brief personal statement	Brief personal statement
College signal (Beca 18/No Beca 18)	College signal (Beca 18/No Beca 18)
High School signal (Lima)	High School signal (Lima/Province)
Job 1	Job 1
Job 2	Job 2
Other skills	Other skills
С	D
C Resume	D Resume
C Resume Indigenous (maternal only)	D Resume Indigenous (paternal and maternal)
C Resume Indigenous (maternal only) Address and contact information	D Resume Indigenous (paternal and maternal) Address and contact information
C Resume Indigenous (maternal only) Address and contact information Brief personal statement	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement
C Resume Indigenous (maternal only) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18)	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18)
C Resume Indigenous (maternal only) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province)	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province)
C Resume Indigenous (maternal only) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1
C Resume Indigenous (maternal only) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1 Job 2	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1 Job 2
C Resume Indigenous (maternal only) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1 Job 2 Other skills	D Resume Indigenous (paternal and maternal) Address and contact information Brief personal statement College signal (Beca 18/No Beca 18) High School signal (Lima/Province) Job 1 Job 2 Other skills

Figure 2. Structure of the four resumes sent to a job ad

The surnames used in this experiment come from a random sample drawn from the full list of surnames from real recipients of *Beca 18*. To construct the identities, we first classified the surnames of these recipients as Indigenous (I) and *Mestizos* (M) and, then, took a random sample without replacement of 400 surnames (200 I and 200 M), to construct 200 unique (and fictitious) combinations of paternal + maternal surnames, which are used in resumes. Sample surnames include Aylas, Ccori, Huasasquiche, Incahuamán, Mallqui, Ñahuin, Pomasoncco, Quispe, Rimaycuna, Sayritupac, Vilca, and Ynga, for Indigenous; and Alvarado, Baldeón, Castro, Delgado, Espejo, Fuentes, Hurtado, Mora, Porras, Segura, Valencia, and Zavala, for *Mestizos*. It

is worth mentioning that we did not find any Anglo-Saxon surname in the administrative data of the program, so we decided to use only Indigenous and *Mestizo* surnames.

We validated our selection of surnames by conducting a survey with 82 freshmen undergraduate students. For each surname, they chose one of these three categories, *Mestizo*, Indigenous, or Other. Of our 100 Indigenous surnames, students considered them as such 85%; and 76% for the 100 *Mestizo* surnames. Our validation rates are in line with the findings from Button and Walker (2020) for Native Americans in the United States.

#### *3.3 Age and given names*

The age of the job applicant, inferred from the year of graduation from high school, was set in the early 20s. We used common a pool of first and middle names (e.g., Juan, María), which were randomly assigned without replacement, using a common basis for each of the four groups created from the surnames. Then, for each of the four elements of a job applicant's full name (2 given names + 2 surnames) the random assignment was without replacement. This allowed us to create 200 unique full names where no name appears more than once in any of the four elements (first name, middle name, paternal surname and maternal surname).

#### 3.4 Brief personal statements

As common in Lima's labor market, every resume included a statement summarizing the profile of the job candidate in the form of a brief personal statement. They were randomly assigned, without replacement, from a set of eleven gender neutral statements.

#### 3.5 Residential addresses, e-mail addresses and telephone numbers

We created a database with 200 addresses, which were assigned at random with no replacement, every time we constructed the four resumes for each selected job ad. Moreover, for each of the 200 identities, we created an email account, using one of the following four randomly chosen formats:

- (i) PaternalSurname.GivenName
- (ii) PaternalSurname.MaternalSurname.GivenName
- (iii) PaternalSurname.MaternalSurname10.GivenName
- (iv) PaternalSurname.MaternalSurname.GivenName10

Every set of four resumes sent to each job ad was randomly drawn from those choices. We used (four) unique cellphone numbers for each job applicant in response to a job ad. Each cellphone was assigned to one of our research assistants. Our assistants were instructed to answer phone calls and e-mails and register the information of the successful candidates.<sup>12</sup> All invitations for an interview were promptly declined, to reduce the costs to the employers.

#### 3.6 Job history

Job applicants have two entries for work experience in their resumes: past and current (all of them have been working during their last year in college), for a total of 2 to 3 years. These work experiences are specific to each job vacancy (we have at least 4 of them to be allocated to each

<sup>&</sup>lt;sup>12</sup> Unlike other countries, setting up voice mails would not work in Peru, as callers almost never leave voice messages. WhatsApp messages are also extremely unusual as a way of contacting our job applicants.

entry), were adapted from real work experiences posted online for similar occupations and were randomly assigned to each job applicant.

#### 3.7 Other information

*English and Computing Skills*: All resumes include a final section with information on the level of English and computing (Microsoft Office) proficiency. These levels were set at intermediate for the general case but were adjusted as requested by the job vacancy. All four job applicants for a given job ad, displayed the same level of proficiency, with the only change being the presentation format and wording. We further added any occupation-specific software requested in the job listing.

*Formatting*: Resumes vary independently and without replacement (when there are at least four choices) according to the four font types (e.g., Arial, Times New Roman), the alignment of the header with the name, residential address, email address and telephone (right, left, centered), heading of each section (e.g., education, work experience, other skills), heading format (in blue, in black, underlined, centered). Our database registers the type of format used for each resume sent.

#### 4. Data

4.1 Sample size

We sent 3,548 resumes between July 2019 and March 2020,<sup>13</sup> in response to 887 job vacancies selected from help-wanted sections of newspapers in Lima, Peru. Power analysis suggested to send at least 2,210 resumes in order to detect a minimum effect of 0.07, for an intra-conglomerate correlation of 0.1, a significance level of 0.05 and a power of 0.8. Correcting that figure for the loss of variance resulting from sending more than one resume for each job listing (as in Lahey and Beasly, 2018) yielded a sample size of 2,873. Given that this power calculation uses as a reference studies for Peru that compare Whites with Indigenous, but we are comparing *Mestizos* with Indigenous (an effect more difficult to detect), our sample size required an additional upward adjustment.

#### 4.2 Occupations

In terms of the occupations selected, we have a much broader types of jobs relative to most of the field experimental literature (as reviewed by Neumark, 2018 and Baertl, 2018). These are shown in Appendix Table 2 and largely responds to what the labor market demands. These occupations correspond to two types of jobs: technical (54% of our sample) and professional jobs (46%).

#### 4.3 Identifying job ads

We identified potential job ads from the job listings published in two popular newspapers in Lima, *El Trome* and *El Comercio*, which print hundreds of ads from all economic activities. We did not restrict our selection to any particular occupational category. However, we excluded job ads that required in-person delivery of the resume or asked to include salary expectations in the resume.

<sup>&</sup>lt;sup>13</sup> We had to stop the data collection due to the Covid-19 pandemic, when the Peruvian government declared a national lockdown. Part of our plan was to examine recruiters' hiring preferences, in order to better understand our empirical results.

We also excluded ads for advanced managerial positions and rather focused on entry-level jobs, with up to three years of work experience, in almost all cases for a recent graduate. Appendix 3 shows a complete batch (four resumes) sent in response to a graphical design position.

#### 4.4 Emailing resumes

Resumes were electronically sent between Monday afternoon and Thursday morning each week (with a few exceptions) using *Thunderbird*. We used its "Send later" extension to schedule the sending of emails at different times of the day. Copies of all incoming went to a master email account, to keep a record of each submission. We only sent resumes for one job listing per firm or employer. Every email sent in the batch of four had a different opening, body, and closing, to ensure that employers would not notice these job applications were related. Text in the email was short, standardized and gender neutral.

#### 4.5 Coding responses

We coded responses as positive ("We are calling to set a job interview"), ambiguous ("Could you please send a copy of your ID") or negative ("Thanks for your application, but we have filled the position"). For the analysis in this paper, we consider only positive responses as callbacks.

#### 4.6 Balance tests

Appendix Table 4 shows that the randomization of each element of the resumes was successful across treatment and control groups, that is, comparing resumes with and without the *Beca 18* statements. Out of 371 variables, less than 2% of them (7 variables) are unbalanced at the 5%

significance level. None remain unbalanced when accounting for multiple hypothesis testing using FDR-q adjustments of the p-values.

#### 5. Methodology

We estimate the following equation, using Ordinary Least Squares (similar results are obtained using *Probit* models):

$$Callback_{ij} = \beta_0 + \beta_1 Beca \ 18_{ij} + \beta_c Controls_{ij} + \alpha_j + \varepsilon_{ij}, \qquad (1)$$

where *Callback*<sub>*ij*</sub> is equal to one if resume *i* received a callback in response to job ad *j*; *Beca*18<sub>*ij*</sub> equals 1, if the resume included a statement about being recipient of such scholarship; *Controls*<sub>*ij*</sub> is a vector of controls, for which we have three versions: (i) no controls; (ii) regular controls, which include controls at the individual level—sex, ethnicity (3 categories of surnames: Indigenous–Indigenous, Indigenous–Mestizo, and Mestizo–Indigenous, with Mestizo–Mestizo, as the base category), district of residence (to control for the socioeconomic status of the job applicant), type of occupation (technical or professional), whether the applicant graduated from a high school located in an indigenous location, or in Lima, and the phone number used in the job application—and job level—whether the major was prioritized and whether the college was prioritized<sup>14</sup>—in addition to the week the job was posted; and (iii) full controls (which adds controls at the resume level: format and style). We further include job ad fixed effects,  $\alpha_j$ , and correct the standard errors for clustering at the resume level in all specifications.

<sup>&</sup>lt;sup>14</sup> We use indicator variables for these two cases.

#### 6. Results

### 6.1. Aggregate effect of Beca 18

We first examine the mean (raw) callback rates by *Beca 18* status, for each category of interest. As Table 3 shows, the callback rates for job applicants that indicated to be recipients of *Beca 18* in their resumes are higher than for those who did not (the former receives 20% more callbacks than the latter). And this "*Beca 18* effect" holds for all Indigenous categories considered (surnames and place of origin) and both genders, though the sample size for each category outlined below does not always allow to get statistical significance.

	Ν	Total	Beca 18 Recipient	Beca 18 Non-Recipient	Difference (p-value) <sup>1/</sup>
Indigenous Signals					
A. Surnames (Paternal – M	[aternal]				
Indigenous-Indigenous	887	10.03	9.05	11.01	0.3310
Mestizo-Indigenous	887	9.02	8.33	9.74	0.4633
Indigenous-Mestizo	887	11.72	9.93	13.44	0.1048
Mestizo-Mestizo	887	10.60	10.38	10.81	0.8363
B. Place of Origin					
Rural High School	1559	10.58	9.52	11.62	0.1781
Lima High School	1989	10.16	9.33	11.00	0.2195
Gender					
Female	1798	11.96	11.27	12.65	0.3661
Male	1750	8.68	7.48	9.87	0.0752
Total	3548	10.34	9.41	11.27	0.0689

Table 3: Mean callbacks by ethnicity

<sup>1/</sup>Two-sided test p-value.

The effects indicated above do not account for clustering nor do they control for the type of college, occupation, or district of residence. This is addressed in Table 4, which reports the *Beca 18* estimates from Equation (1). The estimate with no controls (column 1) shows that a resume listing

*Beca 18* has a higher chance of receiving a callback for a job interview than a similarly-qualified resume not listing the scholarship. The *Beca 18* premium is meaningful as it increases in 20% the callback (=0.019/0.094). Adding candidate controls (column 2), job controls (column 3), and indicator variables for the week the job was posted (column 4) confirms the 20% difference in callbacks. The specification in column 4, which includes the regular controls, is our preferred one, and will be used in all remaining estimations.

	(1)	(2)	(3)	(4)	(5)
Beca 18	$0.019^{**}$	$0.019^{**}$	$0.019^{**}$	$0.019^{**}$	$0.020^{***}$
	(0.007)	(0.007)	(0.007)	(0.007)	(0.007)
Randomized Inference: p-value	[0.014]	[0.009]	[0.012]	[0.016]	[0.010]
	NT.	V	V	V	V
Candidate controls	INO	Y es	r es	res	Y es
Job controls	No	No	Yes	Yes	Yes
Week fixed effects	No	No	No	Yes	Yes
Resume controls	No	No	No	No	Yes
Adjusted $R^2$	0.481	0.485	0.486	0.486	0.484
Mean control (callback for	0.004	0.004	0.004	0.004	0.004
Beca 18 non-recipients)	0.094	0.094	0.094	0.094	0.094
N	3548	3548	3548	3548	3548

Table 4: Regression results on callbacks

Notes: *Candidate controls* include sex, ethnicity, district of residence, type of occupation; *Job controls* include indicators for prioritized major and college; *Resume controls* include several resume's format and style indicators (personal statements, headings style, font types, personal information style). All specifications include a constant term and job ad fixed effects. Robust standard errors (in parenthesis) are clustered at the resume level. P-values using randomized inference (with 1000 repetitions) in square brackets.

\* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

Furthermore, our estimates are robust to the inclusion of full controls (column 5); in fact, doing so only increases the magnitude and significance of our estimate (yielding a 21% difference in callbacks). Additional robustness checks include the use of clustered standard errors at the job ad level, as in Lahey and Beasley (2009), Button and Walker (2020) and Beam et al. (2020), and applying randomized inference, as in Young (2019) and Imbens and Rubin (2015). Our main

results are robust to those alternative estimations (see Appendix Table 5 for results with clustering at the job ad level, and row 3 in Table 4 for the randomized inference's p-values).

To put our *Beca 18* coefficient estimate (20%) in perspective, it is equivalent to 44% of the premium from graduating from the top six colleges in our sample (Pontifical Catholic University of Peru—PUCP, National University of Engineering—UNI, Peruvian University Cayetano Heredia—UPCH, Southern Scientific University—UCSur, TECSUP, and the National Service of Training in Industrial Work—SENATI).<sup>15</sup> An additional comparison of our estimate with a related study (Galarza and Yamada, 2017) indicates that it may help reduce the beauty gap in employment access by 25% and the racial gap by 37%, though in that study the ethnic groups under scrutiny were Whites and Indigenous, both defined as having the paternal and maternal surnames from the referred category. All these findings indicate that the ability signal of Beca 18 dominates the negative poverty signal.

#### 6.2 Heterogenous effects

To understand the relative role of the ability and poverty signal of Beca 18 we divide the sample in different groups according to where the poor are over- or under-represented. Our hypothesis is that the poverty signal will be larger in jobs, careers and for groups where the poor are under-represented. We start with splitting the sample by college type: 5-year vs. 3-year. There is a marked difference between universities (5-year colleges) and *Institutos* (3-year colleges), in terms of average tuition costs. With figures for 2015, the total average tuition cost of attending an *Instituto* in Lima was PEN 73.328 (equivalent to USD 21,500 at that time), PEN 162.883 for private

<sup>&</sup>lt;sup>15</sup> Those colleges score within the top 10 universities and the top 5 *Institutos*, as of 2018 (SUNEDU, 2018).

universities, and PEN 80.759 for public universities (Apoyo, 2015). Specially comparing *Institutos* and private universities, this difference in tuition costs, may indicate a disparity in the socioeconomic status of the student population. This is further confirmed with data from representative household surveys. Students from low-socioeconomic status families are 2.8 times more likely to graduate from a 3-year college relative to a 5-year college. For students from high-socioeconomic status families the ratio is 0.25.<sup>16</sup> Thus, we expect the Beca 18 callback premium to be larger for candidates from 3-year colleges. This is shown and confirmed in Table 6.

Table 6 presents estimates from estimating equation (1) by type of college: for 3-year colleges (*Institutos*) and 5-year colleges (universities). Column 1 reports the estimate for all sample, for comparison. In column 2, when restricting the sample only to *Institutos* is there a significant effect: graduates from *Institutos* that received *Beca 18* increase their chances to get a callback by 39.2% (=0.031/0.079) relative to those without a scholarship. In the case of universities, column 3, though those graduates with a *Beca 18* receive 6.2% more callbacks (=0.007/0.112) than those without such scholarship, the coefficient is not statistically significant. This result suggests different dynamics within each segment of the labor market, with the ability signal prevailing over the poverty signal in the case of *Institutos*.

<sup>&</sup>lt;sup>16</sup> We use data from the Peruvian National Household Survey (ENAHO, for its acronym in Spanish), which provides socioeconomic information, representative at the region level. We pooled the surveys from 2009 to 2019, for the population between ages 22-35, with some college education (complete or not), but no longer enrolled in college (dropouts or graduates). We further restricted the sample to those living with their parents (for ages 22-25, roughly 70% of them lived with at least one parent). The reported figures correspond to Metropolitan Lima. Low (high) socioeconomic status refers to the lowest (highest) quintile of parents' schooling, since schooling is highly correlated with poverty.

	(1)	(2)	(3)
	All	3-year college	5-year college
Beca 18	$0.019^{**}$	0.031***	0.007
	(0.007)	(0.010)	(0.011)
Randomized Inference: p-value	[0.016]	[0.002]	[0.539]
Adjusted. $R^2$	0.486	0.410	0.561
Regular controls	Yes	Yes	Yes
Mean control (callback for	0.004	0.079	0.112
Beca 18 non-recipients)	0.094	0.079	0.112
Ν	3548	1903	1645

Table 6: Effects by college type: 3-year and 5-year

Note: All specifications include a constant term and job ad fixed effects. All specifications include a constant term and job ad fixed effects. Robust standard errors (in parenthesis) are clustered at the resume level. P-values using randomized inference (with 1000 repetitions) in square brackets. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

PRONABEC, the Peruvian government office administering the *Beca 18* program, has a list of prioritized colleges and careers that is used at every scholarship call. The criteria used for this prioritization are broadly based on quality indicators (see notes to Appendix Figure 1, for details). Yet, the poor are under-represented in these colleges and careers. Table 7 reports the estimates breaking the sample by these categories. As seen below, the effect of *Beca 18* for non-prioritized colleges is 58.5%, while that for prioritized colleges is 20.0%. This result is consistent with our prior findings.

	(1)	(2)	(3)
	All	Prioritized	Non-prioritized
Beca 18	0.019**	$0.018^{**}$	$0.072^{**}$
	(0.007)	(0.008)	(0.036)
Randomized Inference: p-value	[0.016]	[0.030]	[0.023]
Regular controls	Yes	Yes	Yes
Adjusted $R^2$	0.486	0.483	0.558
Mean control (callback for <i>Beca 18</i> non-recipients)	0.094	0.090	0.123
N	3548	3114	434

Table 7: Effects by college type: prioritized and non-prioritized

Note: Robust standard errors (in parenthesis) are clustered at the resume level. All specifications include a constant term and job ad fixed effects. P-values using randomized inference (with 1000 repetitions) in square brackets. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

In Table 8 we split the sample by the district of residence (in Lima city) assigned to the resume. Using the 2017 Poverty Map at the district level (INEI, 2019), we classify districts as poor (below the median) and affluent (above the median). Again, we continue to see a larger callback premium when the candidate resides in the randomly assigned poorer districts. A much smaller callback premium and not statistically significant is observed in the affluent districts. In Appendix Table 9 we further divide the sample by this poverty level and by type of college. We find that the bulk of the effects come from job candidates from poorer districts who graduated from 3-year colleges. Overall, these results validate the hypothesis that the callback premium for *Beca 18* is larger for candidates where the poor are over-represented. This suggests that the negative signal of the scholarship is not zero.<sup>17</sup>

<sup>&</sup>lt;sup>17</sup> Effects by gender are shown in Appendix Table 10. We find no difference in the *Beca 18* premium by gender.

	(1)	(2)	(3)
	All	Poorer districts	Affluent districts
Beca 18	$0.019^{**}$	$0.028^{***}$	0.010
	(0.007)	(0.010)	(0.022)
Randomized Inference: p-value	[0.016]	[0.004]	[0.586]
Regular controls	Yes	Yes	Yes
Adjusted $R^2$	0.486	0.515	0.424
Mean control (callback for	0.004	0.086	0.110
Beca 18 non-recipients)	0.094	0.080	0.110
N	3548	2320	1228
N7 ( A11 'C' (' ' 1 1 )	1.1	1 0 1 00 1	

Table 8. Effects by place of residence

*Note:* All specifications include a constant term and job ad fixed effects.

Robust standard errors (in parenthesis) are clustered at the resume level. P-values using randomized inference (with 1000 repetitions) in square brackets. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

*Beca 18* targets students from poor families. And poverty and ethnicity are correlated in Peru, with Indigenous being among the poorest of the poor. To examine whether the return to *Beca 18* differs by surname type, we add an interaction term to equation (1):

 $Callback_{ii} = \beta_0 + \beta_1 Beca \ 18_{ii} + \beta_S Surname \ Type_{ii} + \beta_{SB} Surname \ Type_{ii} * Beca \ 18_{ii} + \beta_{SB} Surname \ Type_{ii} + \beta_{SB} Surname$ 

$$\beta_c Controls_{ij} + \alpha_j + \varepsilon_{ij},$$
 (2)

where: *Surname Type* is a vector that includes three categories (Indigenous – Indigenous, Indigenous – Mestizo, and Mestizo – Indigenous). From this equation, estimated for all sample, 3-year and 5-year colleges, we recover the estimates of interest, reported in Table 11. Those returns are relative to the average callback on non-recipients of *Beca 18*. Considering column 1, we see that job applicants, recipients of *Beca 18*, with paternal and maternal Indigenous surnames receive 37.7% more callbacks than applicants without *Beca 18*. This aggregate effect comes from the returns received by graduates from *Institutos*, where such return is 66.5% (column 2). Further note

that the point estimate for Indigenous-Indigenous surnames is the highest among the four surname types, for the entire sample and each type of college, a result that suggests *Beca 18* could help reduce ethnic gaps in access to employment opportunities, at least for 3-year colleges.

Paternal – Maternal	(1)	(2)	(3)
Surnames	All	3-year college	5-year college
Indigenous – Indigenous	0.377**	0.665**	0.226
	(0.179)	(0.301)	(0.219)
Indigenous – Mestizo	0.022	-0.200	0.177
C	(0.189)	(0.314)	(0.231)
Mestizo – Indigenous	0.129	0.540*	-0.166
-	(0.184)	(0.307)	(0.224)
Mestizo – Mestizo	0.258	0.558*	0.019
	(0.183)	(0.310)	(0.219)
Adjusted $R^2$	0.485	0.411	0.560
Mean control (callback for	0.004	0.079	0.112
Beca 18 non-recipients)	0.094	0.079	0.112
N	3548	1903	1645
		1 1 1 1 1 1 10	

Table 11: Returns to Beca 18 by surname type

Note: All specifications include a constant term and job ad fixed effects. Robust standard errors (in parenthesis) are clustered at the resume level.

p < 0.10, p < 0.05, p < 0.01

### 7. Conclusion

Students from poor families in developing countries are largely under-represented in higher education. And Peru is not an exception: while there is almost no difference in access to primary education by household income levels, there is a 15 percentage points gap in access to secondary education between the richest quintile and the poorest quintile, and this gap increases to 44 percentage points in the case of higher education. One of the policies implemented by the governments in developing countries to reduce such inequality has been the creation of financial aid and student loan programs. We evaluate the effect of the need-based and merit-based *Beca 18* program, which grants scholarships to attend 3-year and 5-year colleges in Peru. We find a

significant effect of *Beca 18* on employment opportunities for poor, talented students. This suggests that the ability signal dominates the poverty signal. Large callback premiums among the poor suggest that the poverty signal is not zero. We further observe that the *Beca 18* effect is the largest for job applicants with both paternal and maternal Indigenous surnames. Taking our results in perspective, scaling-up this merit-based scholarship program would allow to reduce not only the socioeconomic gaps in college enrollment, but also the income ethnic gaps among college graduates (a result to which our paper relates).

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### Appendix Figure 1: Beca 18 Selection Process <sup>a</sup>

Source: Technical Dossier of the 2020 Call for *Beca 18*, PRONABEC (2020). Notes:

<sup>a</sup> Mostly based on the 2019 scholarship call. Numbers within parenthesis are the students total in each stage of the process.

<sup>b</sup> Additional points are given to applicants in priority situations (disability, active fireperson or children of fireperson, volunteers registered by the Ministry of Women and Vulnerable Populations or indigenous or afro-descendant population).

<sup>c</sup> The quality of the colleges and careers chosen by applicants is considered in the final allocation of scholarships. Quality indicators must be reliable and from and external source. For 5-year colleges, these indicators include, research (publications), teaching (degrees attained by faculty, and student/teacher ratio), graduates| wages, acceptance rate, and students' perception about the services received, teaching, infrastructure and college reputation, while for 3-year colleges, includes, teaching (degrees and student/teacher ratio), graduates wages, acceptance rate, college physical infrastructure, Personal computer/student ratio, and share of graduates with a bachelor's degree (*Licenciate*).

Occupation	Ν	Share (%)	Callback (%)
Accountant	56	1.6	3.57
Accounting Assistant	536	15.1	6.53
Business Administration Assistant	388	10.9	4.38
Business Administration/Management	228	6.4	4.39
Civil Engineering	102	2.9	3.92
Engineering (Others) <sup>1/</sup>	238	6.7	15.13
Cooking	152	4.3	9.87
Cooking Assistant	112	3.2	18.75
Dental Assistant	80	2.3	5.00
Graphical/Fashion/Design	164	4.6	12.80
Lawyer	136	3.8	13.24
Logistics	56	1.6	12.50
Marketing	48	1.4	16.67
Nursing Assistant	60	1.7	10.00
Pharmaceutical Chemist	40	1.1	17.50
Physician/Nurse	144	4.1	24.31
Sales Representative	220	6.2	18.18
Secretary	136	3.8	8.09
Teacher (Primary and Secondary Education)	172	4.8	7.56
Technician in Mechanics	96	2.7	10.42
Technician in Electricity/Mechanics/Electronics	308	8.7	12.34
Others <sup>2/</sup>	76	2.1	11.84
Technical Occupations	1903	53.6	9.25
Professional Occupations	1645	46.4	11.61
Total	3548	100.0	10.34

## Appendix Table 2: Occupations used

<sup>17</sup> Includes Agrarian, Chemical, Electric, Electronic, Environmental, Food, Forestry, Industrial, Planning, and Telecommunications Engineering.
 <sup>27</sup> Includes Sociologist, Touristic Guide, Community Manager, Architect, Seamstress.

Appendix 3: Sample resumes sent for a graphical design (diseño gráfico) job

## Darwin Nelson Cusiquispe Uchuypoma

cusiquispe.uchuypoma.darwin10@outlook.com Cl Muquiyauyos Nro 147, Rímac 2993.144.907

Tengo capacidad para trabajar en equipo, buena predisposición para asumir nuevos retos, rápida adaptación y sólidos valores personales, participando proactivamente en las labores que se encuentren bajo mi responsabilidad. Los cuales me permitan desarrollarme personal y profesionalmente.

### **Estudios Realizados**

2013 - 2015	Cibertec Profesional en Diseño Gráfico
2008 - 2012	Pedro A. Labarthe La Victoria
Trabajos Realizados	
2017 - actualmente	Consorcio Carolina Diseño Gráfico Desarrollo de diversas piezas gráficas para los restaurantes Texas y Delibakery.
2016 - 2017	Approach BTL Diseño Gráfico - Practicante Crear y desarrollar ideas en textos creativos para el área de diseño y para el cliente final.
Otros	
Computación	Microsoft Office: Word (avanzado), Excel (avanzado), Power Point (avanzado) y Outlook. Adobe Photoshop, Corel, Illustrator 3D, InDesign.
Idioma extranjero	Inglés (avanzado).

## Jairo Giancarlo Diaz Quinteros

diaz.quinteros.jairo10@outlook.com JR Raul Porras Barrenechea 125, Lince Teléfono: 992 919 542

Persona responsable, creativa, con iniciativa y puntualidad, asumo con agrado los retos y metas que las organizaciones me pudieran plantear; con buen manejo de relaciones interpersonales, facilidad para trabajar en equipo, en condiciones de alta presioón, así como para resolver problemas eficientemente y lograr las metas trazadas por la empresa y mi grupo de trabajo.

### Formación académica

2013 - 2015	Nobert Wiener Profesional en Diseño Gráfico <b>Premios</b> : Beca18 (PRONABEC)
2008 - 2012	Miguel Grau Magdalena
Experiencias	
2017 - actualmente	Consorcio Carolina Diseño Gráfico Desarrollo de diversas piezas gráficas para los restau- rantes Texas y Delibakery.
2016 - 2017	Fine Card Practicante de Diseño Gráfico Realicé diseño para los diversos clientes. Tenía a mi cargo el área de ventas y recepción de los diversos pe- didos.
Otros	
Idiomas	Inglés (avanzado)

Programas	Microsoft Office (avanzado), Illustrator 3D, Corel, In-
	Design y Adobe Photoshop.

# Augusto Mari Hurtado Charccahuana

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Soy una persona con capacidades orientadas al cumplimiento de los objetivos, optimista, proactiva, con facilidad para el trabajo en equipo, adaptable a los cambios y comunicación efectiva.

	Educación
2013 - 2015	Toulouse Lautrec
	Profesional en Diseño Gráfico
	Beneficiario del Programa Nacional de <b>Beca18</b> -
	PRONABEC
2008 - 2012	I.E.P.S.M. Nº16458 Juan Velasco Alvarado
	Experiencia Laboral
2017 - actualmente	Lapiceros y Publicidad
	Diseño Gráfico
	Elaboración y modificación de logos y tex-
	tos para luego ser llevados a grabados con la
	máquina Láser, grabado en lapiceros, placas de
	metal, entre otros.
2016 - 2017	Pan de La Chola
	Diseño Gráfico: Practicante
	Asistente de producción y del área de servicio.
(	)tros Conocimientos
Computación	Microsoft Office (nivel avanzado) Adobe Photo
Computation	shop InDesign Carel Illustrator 2D
	snop, mbesign, Corei, mustrator 3D.
Idiomas	Inglés (nivel avanzado en el Británico, 2017).

# Adela Daniela Yurivilca Chavarry

yurivilca.chavarry.adela10@gmail.com Jirón Juan Pablo Fernandini 1485, San Juan de Miraflores **Cel:** 993-486-591

Soy una persona con un alto sentido de responsabilidad, creativa, pro-activa y con vocación de servicio. Con habilidad para generar compromisos con los demás, manejo eficaz de la comunicación, capaz de asumir nuevos retos. Actualmente estoy buscando una empresa donde pueda desarrollarme a nivel profesional y personal con muchos deseos de superación.

### Estudios

2013 - 2015	Cibertec Profesional en Diseño Gráfico
2008 - 2012	Miguel Grau Magdalena
Historia Laboral	
2017 - actualmente	Acosta Stock Diseño Gráfico Trabajo con Gravograf (Pantografía), realización de volantes y trípticos. Grabado en joyería y llaveros.
0010 0017	

2016 - 2017Approach BTLDiseño Gráfico - PracticanteCrear y desarrollar ideas en textos creativospara el área de diseño y para el cliente final.

## **Información Adicional**

Otros idiomas	Inglés: avanzado.
Computación e In-	MS Office: avanzado. Adobe Photoshop, InDe-
formática	sign, Corel, Illustrator 3D.

Beca 18					
Yes No Difference p-value					
male or female applicant	0.500	0.504	0.004	0.78307	
eth 1	0.251	0.249	-0.003	0.83216	
eth 2	0.250	0.250	0.000	1.00000	
eth 3	0.251	0.249	-0.003	0.83216	
eth 4	0.247	0.253	0.006	0.67165	
title_style1	0.333	0.348	0.015	0.31703	
title_style_2	0.338	0.321	-0.017	0.22849	
title_style3	0.329	0.331	0.003	0.84527	
phone_format1	0.255	0.245	-0.009	0.47989	
phone_format2	0.238	0.262	0.023*	0.07732	
phone_format3	0.255	0.245	-0.010	0.43708	
phone_format4	0.252	0.248	-0.004	0.77750	
phone_number1	0.259	0.241	-0.019	0.15763	
phone_number2	0.251	0.249	-0.003	0.83216	
phone_number3	0.239	0.261	0.022	0.10414	
phone_number4	0.250	0.250	0.000	1.00000	
email_1	0.251	0.249	-0.003	0.83216	
email_2	0.250	0.250	0.000	1.00000	
email_3	0.251	0.249	-0.003	0.83216	
email4	0.247	0.253	0.006	0.67165	
fonts_1	0.257	0.243	-0.014	0.28926	
fonts_2	0.237	0.263	0.026**	0.04787	
fonts_3	0.254	0.246	-0.007	0.57195	
fonts4	0.252	0.248	-0.005	0.72391	
objective_1	0.082	0.098	0.015*	0.07791	
objective_2	0.097	0.087	-0.010	0.24374	
objective_3	0.096	0.083	-0.013	0.14825	
objective4	0.096	0.088	-0.007	0.39658	
objective_5	0.087	0.089	0.002	0.82903	
objective6	0.095	0.088	-0.007	0.39549	
objective7	0.098	0.095	-0.003	0.75589	
objective8	0.089	0.094	0.005	0.59623	
objective_9	0.078	0.098	0.020**	0.02038	
objective_10	0.089	0.089	0.000	0.95720	
objective_11	0.093	0.091	-0.002	0.83216	
edu_style1	0.251	0.249	-0.002	0.88764	

Appendix Table 4. Balance test

edu_style_2	0.243	0.257	0.013	0.32261
edu_style3	0.248	0.252	0.005	0.72391
edu_style4	0.258	0.242	-0.016	0.22972
edu_edit1	0.203	0.192	-0.011	0.37671
edu_edit2	0.196	0.202	0.006	0.61828
edu_edit3	0.190	0.210	0.020*	0.09986
edu_edit4	0.210	0.196	-0.014	0.27006
edu_edit5	0.202	0.200	-0.002	0.87873
work_style_1	0.253	0.247	-0.006	0.67165
work_style_2	0.246	0.254	0.008	0.52489
work_style3	0.262	0.238	-0.023*	0.07732
work_style4	0.240	0.260	0.021	0.12008
work_edit_1	0.203	0.192	-0.011	0.37671
work_edit_2	0.196	0.202	0.006	0.61828
work_edit3	0.190	0.210	0.020*	0.09986
work_edit4	0.210	0.196	-0.014	0.27006
work_edit_5	0.202	0.200	-0.002	0.87873
jobs_worked1	0.159	0.178	0.019*	0.09366
jobs_worked_2	0.166	0.165	-0.001	0.90173
jobs_worked3	0.161	0.178	0.018	0.12128
jobs_worked4	0.167	0.165	-0.001	0.90184
jobs_worked_5	0.176	0.144	-0.032***	0.00401
jobs_worked6	0.027	0.026	-0.001	0.84946
jobs_worked7	0.027	0.030	0.003	0.52199
jobs_worked8	0.030	0.028	-0.002	0.71553
jobs_worked9	0.014	0.010	-0.004	0.25520
jobs_worked10	0.006	0.008	0.002	0.36755
jobs_worked_11	0.007	0.005	-0.002	0.43148
jobs_worked_12	0.006	0.007	0.001	0.69408
jobs_worked13	0.005	0.007	0.002	0.31601
jobs_worked14	0.007	0.006	-0.001	0.70461
jobs_worked15	0.008	0.006	-0.002	0.46375
jobs_worked16	0.005	0.007	0.003	0.23799
jobs_worked17	0.010	0.006	-0.005*	0.08514
jobs_worked18	0.008	0.007	-0.001	0.58876
jobs_worked19	0.007	0.007	0.000	0.85223
jobs_worked20	0.006	0.009	0.003	0.20711
jobs_worked21	0.185	0.191	0.006	0.63866
jobs_worked2_2	0.195	0.186	-0.009	0.45909
jobs_worked23	0.190	0.189	-0.000	0.96886

jobs_worked24	0.181	0.189	0.008	0.50322
jobs_worked25	0.120	0.126	0.006	0.54541
jobs_worked26	0.017	0.017	0.000	0.90605
jobs_worked27	0.015	0.016	0.001	0.71190
jobs_worked28	0.019	0.018	-0.001	0.73341
jobs_worked29	0.016	0.013	-0.003	0.37439
jobs_worked210	0.015	0.013	-0.002	0.51227
jobs_worked211	0.014	0.014	0.000	1.00000
jobs_worked212	0.011	0.012	0.001	0.77608
jobs_worked213	0.012	0.007	-0.005	0.11221
jobs_worked214	0.010	0.008	-0.001	0.62948
job_title1	0.019	0.019	0.000	1.00000
job_title_2	0.001	0.001	0.000	1.00000
job_title3	0.001	0.001	0.000	1.00000
job_title4	0.002	0.002	0.000	1.00000
job_title5	0.002	0.002	0.000	1.00000
job_title6	0.001	0.001	0.000	1.00000
job_title7	0.049	0.049	0.000	1.00000
job_title8	0.001	0.001	0.000	1.00000
job_title9	0.002	0.002	0.000	1.00000
job_title10	0.001	0.001	0.000	1.00000
job_title11	0.001	0.001	0.000	1.00000
job_title_12	0.002	0.002	0.000	1.00000
job_title_13	0.004	0.004	0.000	1.00000
job_title14	0.007	0.007	0.000	1.00000
job_title15	0.006	0.006	0.000	1.00000
job_title16	0.005	0.005	0.000	1.00000
job_title_17	0.004	0.004	0.000	1.00000
job_title18	0.101	0.101	0.000	1.00000
job_title19	0.003	0.003	0.000	1.00000
job_title20	0.001	0.001	0.000	1.00000
job_title21	0.160	0.160	0.000	1.00000
job_title_22	0.019	0.019	0.000	1.00000
job_title_23	0.001	0.001	0.000	1.00000
job_title_24	0.001	0.001	0.000	1.00000
job_title_25	0.006	0.006	0.000	1.00000
job_title_26	0.003	0.003	0.000	1.00000
job_title_27	0.007	0.007	0.000	1.00000
job_title_28	0.004	0.004	0.000	1.00000
job_title_29	0.001	0.001	0.000	1.00000

job_title_30	0.001	0.001	0.000	1.00000
job_title31	0.001	0.001	0.000	1.00000
job_title_32	0.001	0.001	0.000	1.00000
job_title_33	0.002	0.002	0.000	1.00000
job_title34	0.001	0.001	0.000	1.00000
job_title_35	0.005	0.005	0.000	1.00000
job_title36	0.007	0.007	0.000	1.00000
job_title37	0.001	0.001	0.000	1.00000
job_title_38	0.001	0.001	0.000	1.00000
job_title_39	0.002	0.002	0.000	1.00000
job_title40	0.001	0.001	0.000	1.00000
job_title41	0.022	0.022	0.000	1.00000
job_title_42	0.001	0.001	0.000	1.00000
job_title43	0.001	0.001	0.000	1.00000
job_title44	0.001	0.001	0.000	1.00000
job_title45	0.033	0.033	0.000	1.00000
job_title46	0.003	0.003	0.000	1.00000
job_title47	0.001	0.001	0.000	1.00000
job_title48	0.020	0.020	0.000	1.00000
job_title49	0.001	0.001	0.000	1.00000
job_title_50	0.001	0.001	0.000	1.00000
job_title_51	0.001	0.001	0.000	1.00000
job_title_52	0.001	0.001	0.000	1.00000
job_title_53	0.002	0.002	0.000	1.00000
job_title_54	0.001	0.001	0.000	1.00000
job_title_55	0.028	0.028	0.000	1.00000
job_title_56	0.001	0.001	0.000	1.00000
job_title_57	0.003	0.003	0.000	1.00000
job_title_58	0.012	0.012	0.000	1.00000
job_title_59	0.001	0.001	0.000	1.00000
job_title60	0.025	0.025	0.000	1.00000
job_title61	0.001	0.001	0.000	1.00000
job_title_62	0.007	0.007	0.000	1.00000
job_title63	0.027	0.027	0.000	1.00000
job_title64	0.001	0.001	0.000	1.00000
job_title65	0.001	0.001	0.000	1.00000
job_title66	0.004	0.004	0.000	1.00000
job_title67	0.009	0.009	0.000	1.00000
job_title_68	0.001	0.001	0.000	1.00000
job_title69	0.001	0.001	0.000	1.00000

job_title70	0.001	0.001	0.000	1.00000
job_title71	0.004	0.004	0.000	1.00000
job_title72	0.001	0.001	0.000	1.00000
job_title73	0.014	0.014	0.000	1.00000
job_title74	0.004	0.004	0.000	1.00000
job_title75	0.001	0.001	0.000	1.00000
job_title76	0.002	0.002	0.000	1.00000
job_title77	0.006	0.006	0.000	1.00000
job_title78	0.003	0.003	0.000	1.00000
job_title79	0.002	0.002	0.000	1.00000
job_title80	0.027	0.027	0.000	1.00000
job_title81	0.001	0.001	0.000	1.00000
job_title82	0.004	0.004	0.000	1.00000
job_title83	0.002	0.002	0.000	1.00000
job_title84	0.018	0.018	0.000	1.00000
job_title85	0.001	0.001	0.000	1.00000
job_title86	0.001	0.001	0.000	1.00000
job_title87	0.002	0.002	0.000	1.00000
job_title88	0.007	0.007	0.000	1.00000
job_title89	0.001	0.001	0.000	1.00000
job_title90	0.001	0.001	0.000	1.00000
job_title91	0.001	0.001	0.000	1.00000
job_title92	0.002	0.002	0.000	1.00000
job_title93	0.001	0.001	0.000	1.00000
job_title94	0.011	0.011	0.000	1.00000
job_title95	0.033	0.033	0.000	1.00000
job_title96	0.001	0.001	0.000	1.00000
job_title97	0.003	0.003	0.000	1.00000
job_title98	0.001	0.001	0.000	1.00000
job_title99	0.001	0.001	0.000	1.00000
job_title_100	0.003	0.003	0.000	1.00000
job_title_101	0.008	0.008	0.000	1.00000
job_title_102	0.002	0.002	0.000	1.00000
job_title_103	0.001	0.001	0.000	1.00000
job_title_104	0.001	0.001	0.000	1.00000
job_title_105	0.008	0.008	0.000	1.00000
job_title_106	0.009	0.009	0.000	1.00000
job_title_107	0.009	0.009	0.000	1.00000
job_title_108	0.001	0.001	0.000	1.00000
job_title_109	0.005	0.005	0.000	1.00000

job_title110	0.002	0.002	0.000	1.00000
job_title111	0.007	0.007	0.000	1.00000
job_title112	0.001	0.001	0.000	1.00000
job_title_113	0.001	0.001	0.000	1.00000
job_title114	0.003	0.003	0.000	1.00000
job_title115	0.007	0.007	0.000	1.00000
job_title116	0.004	0.004	0.000	1.00000
job_title117	0.011	0.011	0.000	1.00000
job_title118	0.026	0.026	0.000	1.00000
job_title_119	0.002	0.002	0.000	1.00000
job_title_120	0.001	0.001	0.000	1.00000
job_title_121	0.001	0.001	0.000	1.00000
job_title_122	0.001	0.001	0.000	1.00000
job_title_123	0.001	0.001	0.000	1.00000
job_title_124	0.001	0.001	0.000	1.00000
job_title_125	0.001	0.001	0.000	1.00000
job_title_126	0.038	0.038	0.000	1.00000
job_title_127	0.017	0.017	0.000	1.00000
job_title_128	0.011	0.011	0.000	1.00000
job_title_129	0.005	0.005	0.000	1.00000
job_title_130	0.001	0.001	0.000	1.00000
job_title_131	0.001	0.001	0.000	1.00000
job_title_132	0.001	0.001	0.000	1.00000
job_title_133	0.007	0.007	0.000	1.00000
job_title_134	0.001	0.001	0.000	1.00000
job_title_135	0.003	0.003	0.000	1.00000
job_title_136	0.001	0.001	0.000	1.00000
job_title_137	0.001	0.001	0.000	1.00000
additional_info1	0.335	0.336	0.001	0.94835
additional_info2	0.352	0.334	-0.018	0.22068
additional_info3	0.313	0.330	0.017	0.23843
software_1	0.256	0.244	-0.011	0.39656
software_2	0.242	0.258	0.016	0.22972
software_3	0.254	0.246	-0.008	0.52489
software4	0.248	0.252	0.004	0.77750
week_1	0.037	0.037	0.000	1.00000
week_2	0.032	0.032	0.000	1.00000
week_3	0.057	0.057	0.000	1.00000
week4	0.022	0.022	0.000	1.00000
week_5	0.041	0.041	0.000	1.00000

week6	0.043	0.043	0.000	1.00000
week7	0.029	0.029	0.000	1.00000
week8	0.043	0.043	0.000	1.00000
week9	0.040	0.040	0.000	1.00000
week_10	0.031	0.031	0.000	1.00000
week_11	0.054	0.054	0.000	1.00000
week_12	0.039	0.039	0.000	1.00000
week_13	0.031	0.031	0.000	1.00000
week14	0.042	0.042	0.000	1.00000
week15	0.027	0.027	0.000	1.00000
week16	0.043	0.043	0.000	1.00000
week_17	0.043	0.043	0.000	1.00000
week18	0.025	0.025	0.000	1.00000
week_19	0.034	0.034	0.000	1.00000
week20	0.011	0.011	0.000	1.00000
week21	0.022	0.022	0.000	1.00000
week22	0.018	0.018	0.000	1.00000
week_23	0.024	0.024	0.000	1.00000
week24	0.019	0.019	0.000	1.00000
week25	0.042	0.042	0.000	1.00000
week26	0.037	0.037	0.000	1.00000
week27	0.018	0.018	0.000	1.00000
week28	0.014	0.014	0.000	1.00000
week29	0.020	0.020	0.000	1.00000
week30	0.012	0.012	0.000	1.00000
week31	0.021	0.021	0.000	1.00000
week32	0.029	0.029	0.000	1.00000
hs_name1	0.006	0.003	-0.003	0.10757
hs_name2	0.025	0.020	-0.005	0.25867
hs_name3	0.044	0.052	0.008	0.19871
hs_name4	0.023	0.028	0.005	0.32985
hs_name5	0.022	0.019	-0.002	0.58820
hs_name6	0.024	0.024	-0.000	0.92057
hs_name7	0.025	0.020	-0.005	0.25867
hs_name8	0.019	0.024	0.005	0.24388
hs_name9	0.050	0.053	0.003	0.62733
hs_name10	0.020	0.021	0.001	0.74528
hs_name11	0.007	0.005	-0.001	0.54744
hs_name_12	0.047	0.049	0.002	0.77418
hs_name13	0.051	0.052	0.000	0.94494

hs_name14	0.022	0.023	0.002	0.67976
hs_name15	0.028	0.018	-0.009**	0.04098
hs_name16	0.022	0.027	0.006	0.23364
hs_name17	0.023	0.022	-0.001	0.83810
hs_name18	0.023	0.025	0.002	0.61808
hs_name19	0.019	0.021	0.001	0.74247
hs_name20	0.018	0.026	0.007*	0.09521
hs_name21	0.026	0.028	0.002	0.70660
hs_name_22	0.028	0.024	-0.003	0.50093
hs_name_23	0.026	0.023	-0.003	0.48925
hs_name24	0.002	0.004	0.002	0.24766
hs_name_25	0.003	0.002	-0.001	0.56326
hs_name_26	0.023	0.021	-0.003	0.53157
hs_name_27	0.027	0.021	-0.006	0.22922
hs_name28	0.048	0.043	-0.005	0.46256
hs_name29	0.003	0.004	0.001	0.43789
hs_name30	0.048	0.036	-0.012**	0.04771
hs_name31	0.002	0.004	0.002	0.24766
hs_name32	0.005	0.005	0.000	1.00000
hs_name33	0.042	0.037	-0.005	0.38532
hs_name34	0.005	0.006	0.001	0.68233
hs_name35	0.044	0.057	0.013*	0.05057
hs_name36	0.020	0.020	0.000	1.00000
hs_name37	0.003	0.005	0.002	0.22443
hs_name38	0.046	0.047	0.001	0.82764
hs_name39	0.023	0.023	0.000	0.91903
hs_name40	0.051	0.052	0.001	0.83587
hs_name41	0.004	0.001	-0.003**	0.03460
hs_name42	0.005	0.003	-0.001	0.46608
hs2_name1	0.050	0.052	0.002	0.72763
hs2_name2	0.010	0.009	-0.000	0.87534
hs2_name3	0.052	0.051	-0.001	0.88992
hs2_name4	0.024	0.025	0.001	0.84266
hs2_name5	0.024	0.023	-0.000	0.91981
hs2_name6	0.010	0.010	0.000	1.00000
hs2_name7	0.010	0.008	-0.002	0.42133
hs2_name8	0.008	0.011	0.003	0.27209
hs2_name9	0.042	0.047	0.005	0.41322
hs2_name10	0.026	0.020	-0.007	0.15258
hs2_name11	0.056	0.051	-0.004	0.54108

hs2_name12	0.046	0.051	0.005	0.47524
hs2_name13	0.044	0.040	-0.005	0.44643
hs2_name14	0.021	0.026	0.005	0.26809
hs2_name15	0.020	0.029	0.009*	0.06048
hs2_name16	0.011	0.012	0.001	0.66652
hs2_name17	0.008	0.011	0.003	0.35228
hs2_name18	0.022	0.018	-0.004	0.32423
hs2_name19	0.008	0.005	-0.003	0.25538
hs2_name20	0.022	0.020	-0.001	0.74800
hs2_name21	0.026	0.023	-0.002	0.62136
hs2_name22	0.013	0.008	-0.005	0.13830
hs2_name23	0.008	0.008	0.000	0.86526
hs2_name24	0.008	0.012	0.004	0.21487
hs2_name25	0.045	0.037	-0.008	0.18953
hs2_name26	0.025	0.028	0.003	0.56905
hs2_name27	0.028	0.021	-0.007	0.13468
hs2_name28	0.046	0.055	0.008	0.20887
hs2_name29	0.046	0.044	-0.002	0.76887
hs2_name30	0.021	0.010	-0.011***	0.00404
hs2_name31	0.043	0.043	-0.000	0.93979
hs2_name32	0.015	0.014	-0.001	0.70344
hs2_name33	0.019	0.017	-0.001	0.73016
hs2_name34	0.012	0.019	0.007*	0.08247
hs2_name35	0.023	0.025	0.001	0.76483
hs2_name36	0.018	0.020	0.002	0.65175
hs2_name37	0.013	0.019	0.006	0.11467
hs2_name38	0.021	0.027	0.006	0.19058
hs2_name39	0.016	0.023	0.007	0.12295
hs2_name40	0.021	0.014	-0.007	0.10069
hs2_name41	0.020	0.014	-0.006	0.11981
DistritoResidencia_1	0.046	0.048	0.002	0.77315
DistritoResidencia_2	0.034	0.027	-0.007	0.21249
DistritoResidencia_3	0.056	0.052	-0.004	0.58771
DistritoResidencia_4	0.015	0.017	0.002	0.54406
DistritoResidencia_5	0.024	0.021	-0.003	0.53578
DistritoResidencia_6	0.076	0.063	-0.013	0.10439
DistritoResidencia_7	0.074	0.071	-0.004	0.63716
DistritoResidencia_8	0.050	0.045	-0.005	0.47319
DistritoResidencia_9	0.081	0.074	-0.007	0.39079
DistritoResidencia_10	0.057	0.046	-0.011	0.11062

DistritoResidencia_11	0.049	0.052	0.003	0.62583
DistritoResidencia_12	0.021	0.026	0.006	0.22473
DistritoResidencia_13	0.054	0.050	-0.004	0.58143
DistritoResidencia_14	0.049	0.055	0.006	0.40826
DistritoResidencia_15	0.022	0.030	0.007	0.12556
DistritoResidencia_16	0.024	0.027	0.003	0.55880
DistritoResidencia_17	0.035	0.035	0.000	1.00000
DistritoResidencia_18	0.040	0.048	0.008	0.20371
DistritoResidencia_19	0.040	0.048	0.008	0.17946
DistritoResidencia_20	0.032	0.031	-0.001	0.86069
DistritoResidencia_21	0.029	0.031	0.002	0.65495
DistritoResidencia_22	0.093	0.102	0.009	0.32746

	(1)	(2)	(3)	(4)	(5)
Beca 18	$0.019^{***}$	$0.019^{**}$	$0.018^{**}$	$0.018^{**}$	$0.019^{***}$
	(0.007)	(0.007)	(0.007)	(0.007)	(0.007)
Randomized Inference: p-value	[0.072]	[0.068]	[0.078]	[0.074]	[0.071]
Candidate controls	No	Yes	Yes	Yes	Yes
Job controls	No	No	Yes	Yes	Yes
Week fixed effects	No	No	No	Yes	Yes
Resume. controls	No	No	No	No	Yes
Adjusted $R^2$	0.001	0.007	0.009	0.043	0.039
Mean control	0.094	0.094	0.094	0.094	0.094
Number of clusters	887	887	887	887	887
Ν	3548	3548	3548	3548	3548

Appendix	Table 5	. Regression	with	clusters	at the	job	ad l	level
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Robust standard errors (in brackets) are clustered at the job ad level. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01.

	All	3-year college		5-year college		
		Poor district	Affluent district	Poor district	Affluent district	
Beca 18	$0.019^{**}$	$0.042^{***}$	0.027	0.010	0.001	
	(0.007)	(0.014)	(0.036)	(0.014)	(0.027)	
Randomized Inference: p-value	[0.016]	[0.000]	[0.370]	[0.511]	[0.960]	
Adjusted $R^2$	0.486	0.439	0.248	0.588	0.611	
Mean control	0.094	0.071	0.092	0.102	0.133	
Ν	3548	1253	650	1067	578	

Appendix Table 9. Effects by college type and poverty level of district of residence

Note: All specifications include a constant term and job ad fixed effects.

Robust standard errors (in parenthesis) are clustered at the resume level. P-values using randomized inference (with 1000 repetitions) in square brackets. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

	(1)	(2)	(3)
	All	3-year college	5-year college
Beca 18	0.023**	$0.027^*$	0.015
	(0.010)	(0.014)	(0.015)
Woman	0.031***	$0.030^{*}$	0.026
	(0.012)	(0.016)	(0.017)
<i>Beca 18</i> *Woman	-0.008	0.008	-0.016
	(0.017)	(0.023)	(0.024)
Regular controls	Yes	Yes	Yes
Adjusted $R^2$	0.485	0.410	0.560
Mean control (callback for <i>Beca 18</i> non-recipients)	0.094	0.079	0.112
N	3548	1903	1645

### Appendix Table 10: Returns to Beca 18 by gender

Note: All specifications include a constant term and job ad fixed effects. Robust standard errors (in parenthesis) are clustered at the resume level. \* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01