

# Reputation Spillovers in Venture Capital: Evidence from a Randomized Field Experiment

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## Abstract

We analyze a field experiment conducted on AngelList Talent, a large online search platform for startup jobs. In the experiment, whether a startup was funded by a top-tier VC and/or whether it was funded recently is randomly highlighted in job search results. We find that the same startup receives significantly more interest from job seekers when the fact that it was funded by a top-tier VC is highlighted. In contrast, highlighting the fact that a startup was funded recently has no effect. The effect of highlighting top-tier VCs is not driven by low-quality candidates and is stronger for earlier-stage startups. The results provide the first direct evidence that VCs can add value to startups passively, simply by attaching their names to their portfolio companies.

**JEL Classification:** G24, L26, J22, J24, C93

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# 1 Introduction

It is widely believed that venture capitalists (VCs) actively add value to startups beyond the funding they provide. For example, VCs may provide advice, connect startups with individuals in their networks, or make changes to management when necessary. A large and growing literature documents these activities, shows that they have real effects, and provides evidence that startups are willing to give up equity in exchange for them (Lerner, 1995; Kortum and Lerner, 2001; Hellmann and Puri, 2002; Hsu, 2004; Sørensen, 2007; Bernstein et al., 2016). However, it is also possible that reputable VCs add value passively as well, simply by attaching their names to startups. Indeed, reputable VCs may attract important resources to their portfolio companies, like high-quality employees, customers, suppliers, or strategic partners. In this way, investors may help startups to overcome a key challenge that they face, namely convincing various stakeholders to work with a firm that has little to no track record. While the potential for such passive value adding by VCs has long been discussed, there remains scant empirical evidence on whether it actually occurs or is important in practice. In this paper, we fill this gap by using a field experiment to study whether reputable VCs attract talented employees to their portfolio companies.

While it seems plausible that potential employees may be drawn to startups backed by reputable VCs, one could also imagine that they may not be. On the one hand, potential employees may believe that startups funded by reputable VCs are more likely to succeed, or else, that their experience working at such startups will be more valued by the labor market, regardless of startup success. On the other hand, it is also possible that potential employees do not understand venture capital and thus ignore it when deciding where to work, or that

they do not believe that venture funding provides much information on top of what they already know.

Anecdotally, some practitioners claim that VC funding matters a lot for startup recruiting. For example, in a case study of Nerdwallet’s talent reboot, First Round Capital claims that, “because Nerdwallet had never raised money, it never got the buzz or the coverage that usually comes with a check. Without being able to point to prestigious investors...it lacked the cache that, for better or worse, most technical talent looks for in a startup.”<sup>1</sup> In contrast, Costanao Ventures claims that it is a myth that the “cool factor” associated with being a “hot, venture-backed startup” brings a lot of candidates. Rather, in their view, “a great product, team, culture, and category do more than [a] VC’s brand.”<sup>2</sup>

The question of whether reputable VCs matter for startup recruiting is difficult to answer empirically due to both data limitations and identification issues. In terms of data limitations, it is typically hard to observe talent flows to startups. It is usually only possible to obtain data on a startup’s founders and management, but not the rest of its employees. Moreover, even if one could obtain data on non-founder employees, it would still only be possible to observe those who were actually hired, not all those who applied or indicated interest. This makes it difficult to estimate how the talent available to startups relates to their investors.

In terms of identification, there are also many potential endogeneity issues involved in estimating the effect of VCs on recruiting. Most obviously, firms with better prospects for success may attract both reputable VCs and talent, leading to a positive correlation

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<sup>1</sup><https://firstround.com/review/the-total-talent-reboot-how-this-startup-overhauled-its-workforce/>

<sup>2</sup><https://medium.com/costanao-ventures/busting-myths-about-startup-success-in-attracting-talent-198deee1d399>

between the two without a causal relationship necessarily being present. In addition, startups with worse funding could be equally attractive to employees but may choose to hire fewer employees, or lower-quality employees, due to financial constraints. In other words, venture capital may affect startups' human capital through a labor demand channel rather than a labor supply channel.

In this paper, we address these data and identification challenges by analyzing a field experiment conducted by AngelList Talent. AngelList Talent is major online search platform for startup jobs. Startups with job openings can post them on the site, and those interested in working for a startup can search these postings and apply. Beginning in February 2020, AngelList Talent began adding “badges” to their job search results. One badge highlighted whether a job was associated with a startup that was funded by a top-tier VC. A separate badge highlighted whether a job was associated with a startup that recently closed a round of VC funding. The visibility of each type of badge was randomly enabled at the user level. Thus, a user with the top investor (recently funded) badge feature enabled, would see the badge for all startups that merited it, while a user with the feature disabled would never see it.

This experiment allows us to assess how the attractiveness of a startup to potential employees depends on each dimension of VC funding information. It overcomes the aforementioned data limitations by allowing us to actually observe the interest of potential employees in a startup. In the AngelList data, we can observe clicks for further information, clicks to begin the application process, and clicks to submit an application. The experiment also overcomes identification issues by allowing us to observe how potential employee interest *in the same startup* changes when positive funding information about that startup is randomly

highlighted. While the information encoded in the badges is public, and thus could be discovered anyway, the badges make this information more salient and accessible. This allows us to assess the importance of each type of information to job seekers. For example, if potential employees do not care about whether a startup is funded by a top-tier VC, highlighting this fact with a badge should have no effect. However, if they do care, then the badge should increase their interest by making this fact more salient and accessible.

Our main finding is that the same startup receives significantly more interest from potential employees when it is represented with the top investor badge than when it is not. The magnitudes are economically large. The top investor badge causes a 33% increase in the probability of a click, relative to base rates. This is driven by a 29% increase in clicks for further information about a job, a 41% increase in the probability of click to begin the application process, and a 69% increase in the probability of actually submitting an application. These results show that employees prefer to work at startups funded by top-tier investors. Interestingly, we find no significant effect of the recently-funded badge on employee interest, nor any significant interaction between the effect of the recently-funded badge and the effect of the top-investor badge. These findings suggests that employees care much less about whether a startup was recently funded than who it was funded by. The lack of an effect of the recently-funded badge also shows that badges do not mechanically increase interest simply by drawing visual attention. Rather, the top-investor badge seems to have an effect due to the specific information that it encodes.

These baseline results are robust to a variety of sample restrictions and specifications. Notably, since the experiment spanned the COVID crisis, one concern may be that the results we find are specific to crisis times. In other words, it could be that employees do not care

about a startup’s investors during normal times, but they do during a crisis. However, we show that the results are similar prior to March 13, 2020, when a national emergency was first announced in the U.S. due to COVID. We further show that our estimated coefficients are highly stable when we add additional fixed effects or user- and job-level controls, as would be expected given the randomized nature of the treatment.

We then explore whether the effect of the top investor badge varies across startups with different characteristics. One might expect that potential employees would find the presence of top investors most informative for less-developed startups that are harder to evaluate independently. Consistent with this idea, we find that job seekers react more strongly to the top investor badge with it is associated with an early-stage startup (pre-Series-B) than with a later-stage one (post-Series-B).

We also explore whether the effect of the top investor badge varies across different types of users. It seems plausible that users who are located in innovation hubs may be more familiar with venture capital and therefore react more strongly to the presence of top investors. We therefore partition users in our sample into those who are located in innovation hubs (San Francisco Bay Area, New York, and Boston) and those who are not. Consistent with what one might expect, we find significantly stronger reactions among candidates located closer to the bulk of venture capitalists.

One possible concern is that reputable VCs may primarily draw the interest of low-quality candidates. This could occur if, for example, low-quality candidates tend to chase past success while high-quality candidates try to independently assess a startup’s prospects. In that case, the actual recruiting benefit from being funded by a top investor might be smaller than what our baseline results would at first suggest. However, we find that responsiveness

to the top investor badge does not differ by candidate quality. We employ three proxies for candidate quality: years of experience in the candidate’s current field, whether the candidate graduated from a top-50 school, and whether the candidate holds a graduate degree. Across all three measures, we find similar reactions to the top investor badge by high- and low-quality candidates. These results confirm that being funded by a top-tier investor does not increase interest only among low-quality candidates who would not have been hired anyway. The results also help to rule out the possibility that candidates do not understand what the top investor badge means, or else incorrectly react to it, as we would expect stronger effects among low-quality candidates in that case.

Our paper provides insight into what drives talent flows to startups. Attracting talent is widely believed to be critical to a startup’s success. Indeed, it is often claimed that people are a startup’s most valuable asset, and that there is currently a skill shortage hindering startups from building products on time, and being able to market and sell those products.<sup>3</sup> Thus, a key challenge that startups face is how to convince talented individuals to work for them rather than pursuing other, potentially more stable, career opportunities. Yet, despite the apparent importance for startups of attracting talent, there has been very little research on what drives talent flows to these firms. We begin to shed light on this question by examining the role of venture funding.

This paper relates to a large literature investigating the extent to which VCs add value beyond the funding they provide (Megginson and Weiss (1991); Lerner (1995); Kortum and Lerner (2001); Hellmann and Puri (2002); Hsu (2004); Sørensen (2007); Bernstein et al.

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<sup>3</sup><https://www.entrepreneur.com/article/244826>  
<https://www.forentrepreneurs.com/recruiting/>  
<https://medium.com/swlh/talent-wars-silicon-valleys-hiring-secret-450632dd4ca6>  
<https://www.inc.com/tess-townsend/how-thumbtack-is-hacking-recruitment.html>

(2016)). Our paper differs in that we focus on the question of whether VCs add value *passively*, by simply attaching their names to a startup. While the possibility that VCs add value passively has long been discussed, this is the first paper, as far as we are aware, to provide direct empirical evidence of passive value adding. Specifically, we show that top-tier VCs aid in recruiting, not only by actively convincing talented individuals in their network to join, but also by passively attracting talented individuals from outside of their network. It seems plausible that similar effects extend to other outcomes as well such as attracting valuable costumers, suppliers, or strategic partners.

This paper also relates to a literature investigating what attracts investors to startups (Pence (1982); MacMillan et al. (1985, 1987); Fried and Hisrich (1994); Kaplan et al. (2009); Bernstein et al. (2017)). We instead investigate what attracts employees to startups. It is possible that many of the same factors are important for both parties. For example, both investors and employees may look for startups with a strong founding team, a good product, or demonstrated traction. Instead of examining the effect of such attributes, we instead examine whether top-tier investors themselves attract employees independent of startup attributes. Our results suggest the possibility of a positive feedback loop. For example, startups with strong founding teams may attract talent directly but this effect may be amplified by the fact that they also attract top investors.

Finally, this paper relates to a literature on performance persistence among venture investment firms (Kaplan and Schoar (2005); Phalippou and Gottschalg (2009); Robinson and Sensoy (2013); Harris et al. (2014); Hochberg et al. (2014); Ewens and Rhodes-Kropf (2015); Braun et al. (2017); Korteweg and Sorensen (2017); Nanda et al. (2020)). In light of the fact that past performance does predict future performance among VCs, it may be ratio-



nal for job seekers to be attracted to startups funded by VCs with good past performance. On the flip side, reputation spillovers from VCs to portfolio companies may contribute to the performance persistence of VCs. Our results thus provide a new potential channel for performance persistence among VC firms.

The rest of the paper proceeds as follows. Section 2 provides background on the AngelList Talent platform, Section 3 discusses the design of the field experiment that we study, Section 4 discusses the data, Section 5 presents the results, Section 6 discusses potential mechanisms, and Section 7 concludes.

## 2 The AngelList Talent Platform

AngelList was originally founded in 2010 as a platform to connect startups with potential investors. In 2012, it expanded into startup recruiting. The original investment portion of the site, now called AngelList Venture, was separate from the recruiting portion of the site, AngelList Talent. One of the key features of AngelList Talent was that it did not allow third party recruiters. It also encouraged transparency about salary and equity upfront, before candidates applied.

Since its launch, AngelList Talent has rapidly grown in popularity, becoming an important part of the startup ecosystem. Over its lifetime, more than 10M job seekers have joined the platform, more than 100,000 startups have posted a job there, and more than 5M connections have been made between job seekers and startups.

The way that AngelList Talent works is fairly straightforward. Startups can post job openings, specifying their jobs' location, role, description, type (i.e., full-time/part-time),

salary range, equity range, and other details. Job postings are also linked to AngelList startup profiles that provide further firm-level information, including funding status, size, industry, and team members. After job postings are reviewed for spam they become live for search. Users can search live job postings, potentially specifying a variety of filters based on the job and startup characteristics above. Importantly for our purposes, a user must register on the site and provide basic resume information before s/he can perform a search. Thus, all searches can be linked to a user by AngelList—although user searches are not publicly visible to startups or other users.

After a user performs a search, the results are displayed. The results can be sorted by “Recommended” (i.e., jobs that AngelList thinks are best suited to the user’s profile) or “Newest” (i.e., most recently posted). Sorting by recommended is the default. If there are multiple matching jobs for a given startup, they are displayed together in a group, even if the jobs rank very differently in terms of the sorting variable. The display rank of the startup’s jobs is based on the highest-ranking matching job of the startup.

Users can engage with search results in multiple ways. First, they can click on the name/logo of the startup to get further information about the firm. Second, they can click on the job title to get further information about the position. Third, they can click on the “apply” button to begin the application process. The apply button is embedded in each search result and also appears on the startup profile and job profile pages just described. After clicking the apply button, users are taken to an application page, which may ask for further resume information and/or provide space for a cover letter. To complete the application process, users must fill out the required fields and click on the “send application” button. Approximately 70% of users who click on the apply button end up sending an

application.

After a user sends an application to a startup, the startup can “request an introduction” to the user, “reject” the user’s application, or do nothing—in which case the user’s application is automatically rejected in 14 days. Requesting an introduction to a user allows the two parties to communicate directly. After this connection is made, the rest of the hiring process occurs outside of the platform. Thus, AngelList does not directly observe if a given candidate ends up being hired.

### 3 Experimental Design

From February 5, 2020 to April 7, 2020, AngelList experimentally attached “badges” to some of their search results. These badges are small graphics meant to highlight certain types of positive information, if applicable, about the startup that posted the job. Two of the initial badges involved information about VC funding.<sup>4</sup>

The first badge highlighted startups funded by top-tier investors. AngelList’s preliminary user research suggested that users may not recognize the names of top-tier VCs, therefore it identified top-tier VCs by one of their well-known past investments. For example, startups funded by Kleiner Perkins got a badge with the text “Same Investor as Amazon” and startups funded by Accel Partners got a badge with the text “Same Investor as Facebook.” When the user hovered her mouse over the badge, additional text would appear saying, “Kleiner Perkins invested in both [this startup] and Amazon” or “Accel Partners invested in both [this startup] and Facebook.” The second badge highlighted startups that had raised funding in

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<sup>4</sup>Several additional badges were introduced later in 2020 but were not part of the experiment studied in this paper.

the past six months. This badge had the text “Recently Funded” and when a user hovered her mouse over it, additional text appeared saying, “Raised funding in the past six months.” Figure 1 provides an example.

Feedback from users indicates that they understood the meaning of the badges. A feedback link was placed next to the badges to allow users to express their thoughts about the usefulness of the badges. In free-form comments, no one complained of not understanding the meaning of either badge. Some users who were knowledgeable about VC stated that they would have been familiar with investors names if provided directly on the top-tier investor badge, but they understood what the badge was trying to convey. Overall, 138/175(=79%) of respondents said they found the top-investor badge helpful and 82/93(=93%) of respondents said they found the recently-funded badge helpful. Of course, it should be noted that there is selection bias in terms of who chose to provide feedback.

Each badge was initially introduced in a randomized fashion, with randomization occurring at the user level. The two badges were considered two independent “features,” and each feature was randomly enabled for a user with a probability of 40%. Thus, a user with the top-tier investor (recently-funded) badge feature enabled, would see the badge for all startups it applied to, while a user with the feature disabled would never see it. To be clear, the randomization never led false badges to be shown. It only led true badges not to be shown. Badge visibility for a user remained consistent across different searches and sessions. This was possible due to the fact that searches can only be performed by logged-in users as discussed previously.

Without an experiment, making comparisons across startups with and without each badge would be problematic. It may be that startups funded by top-tier investors and/or

startups funded more recently draw more interest due to being higher quality rather than anything to do with the badges. In other words, firms with better prospects for success may both attract venture capital and talent, leading to a positive correlation between the two without a causal relationship necessarily being present. The above experimental design is powerful in that it allows us to make within-startup comparisons. In particular, we can compare how potential employee interest in the *same startup* changes when the startup is displayed with and without each badge. We do this by including startup fixed-effects in all regressions. Specifically, we estimate equations of the form:

$$Interest_{ijs} = TopInvestorBadge_{ijs} + RecentlyFundedBadge_{ijs} + \eta_j + \epsilon_{ijs}, \quad (1)$$

where  $s$  indexes searches,  $Interest_{ijs}$  is a measure of user  $i$ 's interest in startup  $j$  following search  $s$ ,  $TopInvestorBadge_{ijs}$  is an indicator equal to one if user  $i$  saw startup  $j$  represented with a top-tier investor badge following search  $s$ ,  $RecentlyFundedBadge_{ijs}$  is defined analogously for the recently-funded badge, and  $\eta_j$  is a startup fixed effect.

While it is impossible to experimentally manipulate the actual funding history of a startup, experimentally manipulating the salience/accessibility of this history still helps us to understand whether potential employees care about this information. For example, if potential employees do not care about whether a startup is funded by a top-tier VC, highlighting this fact with a badge should have no effect. However, if they do care, then the badge should increase their interest by making this fact more salient and accessible. Bernstein et al. (2017) use a similar experimental approach to study which startup characteristics potential investors care about.

## 4 Data

The data we use in this paper were provided directly by AngelList and were collected by their backend system. In these data, we can observe all user searches and clicks along with their corresponding time stamps. We can also observe all jobs that were live at the time of each search, the badges associated with each job, and whether each type of badge was visible to the user performing the search.

As shown in equation 1, our baseline analysis is at the user-search-startup level. An alternative level of observation would be the user-search-job level. However, because AngelList displays search results for the same startup grouped together, and because the badges only vary at the startup level rather than the job level, we consolidate all jobs from the same startup into a single observation.<sup>5</sup>

AngelList does not directly track the search results that a given search yielded. Instead, we reconstruct these results based on the jobs that were live when the search occurred. That is, for a given search, we find all matching jobs that were live at the time of the search and use these as the basis of the search results. We then reconstruct the order of the search results based on the time that the job was posted on AngelList, with the most recently-posted job first. This sort order should precisely match what the user saw for searches sorted by “Newest.” It should also roughly match searches sorted by “Recommended,” as recency is heavily weighted in the recommendation algorithm.<sup>6</sup>

AngelList also does not track the number of search results a user viewed following a search, as the results are not paginated but rather keep appearing continuously as a user

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<sup>5</sup>When we control for job characteristics in some specifications, we use average job characteristics collapsed to the user-search-startup level.

<sup>6</sup>AngelList could not provide the precise algorithm used for the recommended ordering.

scrolls down. In our baseline analysis, we limit the sample to the top 50 search results according to our inferred sort order. We also show that our results are robust to instead limiting the sample to the top 25 or top 100 inferred search results.

We apply several restrictions on the searches that we include in our analysis. First, we limit the sample to searches by users located in the United States in order to ensure that our findings do not reflect a mix of countries with very different startup ecosystems. Second, we exclude the top 1% of users in terms of their maximum number of searches in a single day during the sample period. This is done to limit the influence of fake users (i.e., bots) that might be scraping the AngelList website. Third, we only include basic searches in which a user specifies a location and a role.

AngelList's data record many extraneous searches because there is no search button that launches a search. Rather, search results are updated in real time as users update their filters and as they scroll through the results. Therefore, we exclude from the analysis searches that are followed by a different search in less than one minute, as these likely reflect intermediate searches that occurred as a user was assembling their desired combination of filters. We also consolidate repeat searches occurring consecutively, as these likely reflect reloads that occurred as a user was scrolling through the results. Overall, we are left with a sample of 8,187 users who performed 15,221 searches that yield 17,069 startups (in the top 50 results).

## 5 Results

### 5.1 Summary Statistics

We begin by presenting various summary statistics for our sample. Table 1 shows summary statistics at the user level. Panel A shows that the average candidate in our sample has approximately 4.2 years of experience. About 29% of the users graduated from a U.S. top 50 university (based on U.S. World News and Report 2020 ranking), and 23% of them have a graduate degree.

Panel B shows the geographic distribution of the users in our sample across the 20 most common cities. New York and San Francisco have the highest percentage of users—each approximately 20%—followed by Los Angeles, Boston, and Seattle. Together, users in these five cities account for approximately 57% of the users in the sample (for whom a location is known). Users in the top 20 cities account for 76% of the users in our sample. Panel C shows the distribution of users across different roles. The most common role is Developer followed by Marketing, Operations, Product Manager, and Designer.

Table 2 shows summary statistics at the startup level. The sample consists of all startups that showed up in top 100 search results. Panel A shows the distribution of startups by market, across the top 20 most common markets. The most common areas that startups in the sample operate in are Mobile, E-Commerce, Enterprise Software, SaaS, and Health Care. Together, startups in these five markets account for approximately 32% of the startups in our sample (for which market is known). Startups in the top 20 markets account for 59% of the startups in our sample. Most of the startups in our sample are fairly small (Panel B). Approximately 48% of the startups in our sample have 1-10 employees, and 77% have 1-50



employees.

Next, Table 3 shows summary statistics at the search result level (i.e., the user-search-startup level), which is the level of most of our analysis. Here we show descriptives limiting the sample to the top 25, top 50, and top 100 search results. Panel A shows summary statistics for the two dimensions of VC funding we study. The variable in the first three rows is an indicator equal to one if the startup in the search result was funded by a top-tier investor. The variable in the second three rows is an indicator equal to one if the startup in the search result had the top-tier investor badge displayed. The variables in the next six rows are analogous but for recently-funded status and the recently-funded badge. Column 2 shows that approximately 18% of the search results were associated with startups funded by a top-tier investor, and approximately 7% of the results actually displayed the top-tier investor badge. Approximately 5% of the search results were associated with startups that had been recently funded, and 2% of the results actually displayed the recently-funded badge. Columns 3–4 repeat the same analysis on the subsample of search results that were associated with startups funded by a top-tier investor. Columns 5-6 limit the sample to search results that were associated with startups that were recently funded. Approximately 12% of the top-tier investor search results were also recently funded. Approximately 42% of the recently-funded search results also had a top-tier investor. Consistent with the two-way randomization described above, startups with a top investor (that were recently funded) display such a badge about 40% of the time in search results.

Panel B of Table 3 shows summary statistics for the various type of clicks that we study. The variable in the first three rows is an indicator for any click, in the next three rows it is an indicator for a click for further information, in the next three rows it is an indicator

for a click to start the application process, and in the final three rows it is an indicator for a click to submit an application. As we would expect, the second column shows that click rates of all types are lower the more search results we include in the sample. For example, within the top 25 search results, there is a 2% probability of a result getting a click (of any type), but within the top 50 search results, there is a 1.6% probability of a result getting a click, and within the top 100 search results the click rate drops to 1.2%. These decreasing click rates likely reflect both a preference among users toward more recently posted jobs, and the fact that some users may not have even scrolled down to the lower ranking results to consider clicking on them. In columns 3–4 and 5–6 we limit the sample to results that displayed the top investor badge or that did not display the top investor badge, respectively. Comparing columns 4 and 6 we see that within the top 50 results, the probability of a click (of any type) is 2.1% for results that displayed the top investor badge and 1.6% for results that did not display the badge. Similarly, in columns 7–8 and 9–10 we limit the sample to results that displayed the recently-funded badge or that did not display the recently-funded badge, respectively. Comparing columns 8 and 10 we see that within the top 50 results, the probability of a click (of any type) is 2.2% for results that displayed the recently-funded badge and 1.6% for results that did not display the badge.

While the descriptive results from Panel B are suggestive of the badges attracting interest from potential employees, they are subject to endogeneity concerns. In particular, a search result has to be associated with a top-tier investor in order for it to display the top investor badge, and top-tier investors likely invest in higher-quality startups. Therefore users may tend to click on search results with the top investor badge not because of the badge but because of the quality of the underlying startup. Similar concerns may hold in comparing

click rates across startups with and without the recently-funded badge. To address this concern, we turn to within-startup comparisons in the next section.

Last, to verify the validity of our randomization, we test for sample balance across search results that enabled and disabled badge visibility. Table 4 shows the results. The top panel compares user-level characteristics and the bottom panel compares startup-level characteristics. As shown in columns 2 and 4, all user and startup characteristics are highly similar across search results that enabled and disabled the visibility of the top investor badge, with T-tests in column 5 showing insignificant differences in means. The same pattern holds for the recently funded badge in columns 6–10.

## 5.2 Baseline Results

To address potential endogeneity concerns involved in making comparisons across startups, we estimate equations along the lines of Equation 1. Because equation 1 includes startup fixed-effects, the coefficients on the two badge indicators are identified only from within-startup variation in the visibility of the badges. Table 5 show our baseline findings from estimating this regression specification within the sample of top 50 search results. Column 1 shows that the visibility of the top investor badge increases the probability of a click by 0.54 ppt, with the estimated coefficient statistically significant at the 1% level. The estimated effect is also economically significant. The unconditional probability of a click in this sample of 1.6%, therefore the coefficient on the top investor badge indicator implies a 33% increase in the probability of the click. Interestingly, we find no significant effect of the recently-funded badge on clicks. This findings suggests that employees care much less about whether

a startup was recently funded than who it was funded by. The lack of an effect of the recently-funded badge also shows that badges do not mechanically increase interest simply by drawing visual attention. Rather, the top investor badge seems to have an effect due to the specific information that it encodes. In column 2, we also include the interaction between the two badges in the specification. We find do not estimate a significant coefficient on the interaction term. Therefore, it does not appear that being funded by a top-tier investor matters more if the funding was recent, nor that being funded recently matters more if it was by a top-tier investor.

Columns 3–6 decompose clicks into clicks for further information (i.e. clicks on either the startup or one of its jobs) and clicks to begin the application process. We find that both measures of potential employee interest increase in response to the top investor badge but not the recently-funded badge. In particular clicks for further information increase by 0.28 ppt, or 29% relative to the unconditional probability, and clicks to begin the application process increase by 0.26 ppt, or 41% relative to the unconditional probability. In columns 4 and 6 we again find to evidence of interaction effects for these outcomes.

Finally, in columns 7–8 we examine application submissions. Again, we find that the top investor badge significantly increases application submissions, that the recently funded badge has no effect, and that there is no interaction effect between the two badges. In terms of magnitudes, the estimates imply that the top tier investor badge increases application submissions by 0.29 ppt or 69% relative to the unconditional probability. This shows that our results do not simply reflect an increase in inconsequential clicks that are not followed up by more consequential actions.

Overall, these results show that the same startup receives significantly more interest from

potential employees when it is represented with the top investor badge than when it is not. This evidence strongly suggests that the attractiveness of a startup to potential employees is affected by who has invested in it.

### 5.3 Robustness

Because our results are based on a randomized experiment, they are likely to be internally valid. Confirming this internal validity, we show that our estimated coefficients are highly similar when we include additional fixed effects and controls. Specifically, Panel A of Table 6 controls for startup  $\times$  week fixed effects to account for time-varying startup characteristics over our sample period. Panel B of Table 6 controls for result rank, user characteristics, job characteristics (averaged to the search-startup level), and search date fixed effects. In both panels, the estimated coefficients are highly similar to those estimated in Table 5, lending support to the validity of our randomization.

One may still worry, however, about the external validity of our results. In particular, one concern is that, since the experiment spanned the COVID crisis, the results we find may be specific to crisis times. In other words, it could be that employees do not care about a startup’s investors during normal times, but they do during a crisis. To help address this concern, in Panel C of Table 6, we repeat our baseline analysis limiting the sample to dates prior to March 13, 2020—when a national emergency due to COVID was first announced in the U.S. As can be seen the results remain similar during the pre-COVID period, suggesting that potential employees care about who a startup’s investors are, regardless of economic conditions.

Another potential concern is that AngelList does not track the number of search results a user viewed following a search, as the results are not paginated but rather keep appearing continuously as a user scrolls down. In our baseline analysis, we limit the sample to the top 50 search results according to our inferred sort order. In other words, we assume that users' choice sets following a search consisted of the 50 startups that most recently posted a job matching their search criterion. If users actually viewed fewer search results, this would not bias us toward finding an effect of the badges. In this case, many search results would not have been clicked because they were never seen, but this would be just as likely to happen for the search results with and without each badge. In Panel D of Table 6, we show that our baseline results are robust to instead limiting the sample to the top 25 or top 100 inferred search results. As we would expect, as we include more (fewer) search results we estimate lower (higher) coefficients on the badge variables. However, these coefficients should be interpreted relative to lower (higher) baseline click rates.

## **5.4 Heterogeneity**

### **5.4.1 Startup Financing Stage**

Next, we examine how the effect of the top investor badge varies with a startup's financing stage. If a startup's investors provides a signal to job seekers about its prospects, then such a signal should be most valuable when the prospects of the startup are most uncertain—for example, early-stage startups. Hence, we should expect job seekers to react more strongly to the top investor badge when the badge is associated with an early-stage as opposed to a late-stage startup. Table 7 explores such heterogeneity. We partition our sample into early-stage

and late-stage startups and repeat our baseline analysis in each subsample. We define early-stage (late-stage) startups as those that had not yet raised a Series B financing round (already raised a Series B financing round) at the time of the search. We find that job candidates indeed respond more strongly to the top investor badge when the associated startup is early-stage than when it is late-stage. For example, based on columns 1–2, candidates are 0.94 ppt more likely to click on an early-stage startup when it displays a top investor badge, but are only 0.33 ppt more likely to do so when the startup is late-stage. This difference is statistically significant at the 1% level, as indicated by the p-value at the bottom of the table. We find similar results when looking at each type of click. These results suggest that reputable VCs add more value passively to earlier-stage startups than to later-stage ones. This is consistent with the idea that earlier-stage startups face greater uncertainty, or have shorter track records to convince job seekers to join.

#### **5.4.2 Candidate Geography**

We also examine whether the effect of the top investor badge varies across candidates in different types of geographies. It seems plausible that users who are located in innovation hubs may be more familiar with venture capital and therefore react more strongly to the presence of top investors. Therefore we partition users in our sample into those who are located in innovation hubs (San Francisco Bay Area, New York, and Boston) and those who are not. The results are presented in Table 8. Consistent with what one might expect, we do find significantly stronger reactions among candidates located closer to the bulk of venture capitalists.

### 5.4.3 Candidate Quality

Finally, we examine how the effect of the top investor badge varies with candidate quality. It is possible that being funded by a top-tier investor primarily draws the interest of low-quality candidates. For example, low-quality candidates may tend to chase past success while high-quality candidates may believe that they can make their own assessment of a startup's prospect without considering VC funding. If that were the case, it would suggest that the actual recruiting benefit associated with being funded by a top-tier investor is smaller than it seems. On the other hand, it is also possible that being funded by a top-tier investor primarily draws the interest of high-quality candidates. For example, high-quality candidates may care about predicting the success of a startup, while low-quality candidates prioritize other considerations. Alternatively, high-quality candidates may be more knowledgeable about the performance persistence of top-tier VCs, while low-quality candidates may not understand VC funding and therefore ignore it.

In Table 9, we partition our sample into high- and low-quality candidates based on three proxies for candidate quality: above-median number of years of experience, graduated from a top 50 school, or having a graduate degree. We repeat our baseline analysis in each subsample. Across all three measures, we find similar reactions to the top investor badge by high- versus low-quality candidates, with the difference in coefficients being statistically insignificant.

These results confirm that being funded by a top-tier investor does not merely increase interest among low-quality candidates who would not have been hired anyway. The results also help to rule out the possibility that candidates do not understand what the top investor



badge means, or else incorrectly react to it, as we would expect stronger effects among low-quality candidates in that case.

## 6 Discussion of Potential Mechanisms

The main contribution of this paper is to show that reputable VCs attract talent to startups. The question of what it is about these investors that workers find appealing is beyond the scope of our analysis. However, two potential mechanisms seem most likely. First, potential employees may be drawn to firms with top investors because they believe these firms are more likely to ultimately succeed. Second, potential employees may also believe that their experience at such firms will be more valued by the labor market, regardless of firm success. These two explanations are not mutually exclusive. We note that anecdotal evidence from the free-form feedback provided by users about the badges points more toward the first explanation. In particular, no users explicitly mentioned the second explanation, but several mentioned the first. For example, one user who was interviewed by AngelList stated, “I kind of judge a startup by who their investors are...there are really good VCs and some less well known ones...when I see people or funds investing in companies that I like and I’ve heard of and seen become successful it gives me a bit little more context of maybe how this startup in particular will perform in the future.”

One could also further decompose the first mechanism. In particular, potential employees who are trying to predict the success of a startup may be attracted to startups funded by a top investors because they believe these investors are good at picking investments (i.e., “screening”), or because they believe that top investors are good at actively adding value

(i.e., “monitoring”). In the former case, passive value adding would occur independently from active value adding (this is commonly known as “certification effect” in the literature). In the latter case, passive value adding would serve as an amplifier of active value adding. The main goal of this paper is not to differentiate these two possibilities, but rather to show that passive value adding occurs. In practice, employees who are drawn to firms with top investors due to increased odds of success may not really think deeply about the reason for these increased odds anyway (i.e., screening vs monitoring).

## 7 Conclusion

Attracting talent is widely believed to be critical to the success of a startup. However, this process can be hindered by the significant uncertainty surrounding early-stage businesses, making job seekers hesitant to supply their human capital to these firms. In this paper, we investigate whether VC investors’ reputation can mitigate such uncertainty and facilitate startups’ recruiting. We do so by analyzing a field experiment conducted by AngelList Talent, a large online search platform for startup jobs. In the experiment, whether a startup was funded by top-tier VCs and/or whether it was funded recently is randomly highlighted in search results. We find that the same startup receives significantly more interest from potential employees when the fact that it was funded by a top-tier VC is highlighted. In contrast, highlighting the fact that a startup was funded recently has no effect. This effect is not driven by low-quality candidates, and is stronger for earlier-stage startups who face greater uncertainty. The results provide direct causal evidence of passive value adding by VCs and their impact on the labor market.

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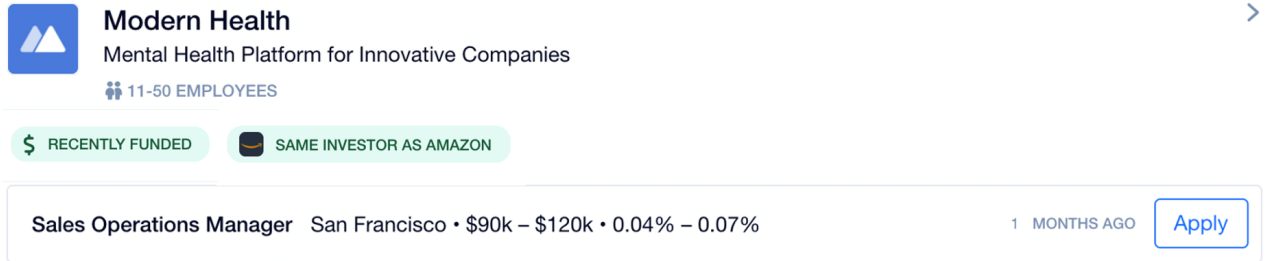
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## Figure 1 Example Job Listing with Badges

Panel A shows an example of job listing with a recently funded badge and a top investor badge. Panel B shows the additional information displayed when a user hovers the mouse on these badges.

### Panel A: Example Job Listing

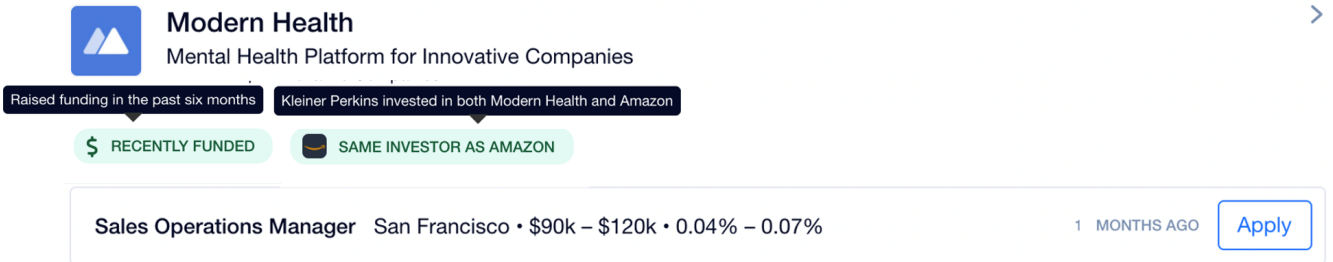


**Modern Health** >  
Mental Health Platform for Innovative Companies  
11-50 EMPLOYEES

**RECENTLY FUNDED** **SAME INVESTOR AS AMAZON**

**Sales Operations Manager** San Francisco • \$90k – \$120k • 0.04% – 0.07% 1 MONTHS AGO [Apply](#)

### Panel B: Additional Information Shown Upon Hovering



**Modern Health** >  
Mental Health Platform for Innovative Companies

**RECENTLY FUNDED** **SAME INVESTOR AS AMAZON**

**Sales Operations Manager** San Francisco • \$90k – \$120k • 0.04% – 0.07% 1 MONTHS AGO [Apply](#)

**Raised funding in the past six months**

**Kleiner Perkins invested in both Modern Health and Amazon**

**Table 1****User Summary Statistics**

This table shows summary statistics at the user level. Panel A shows summary statistics for various measures of user quality. Panel B shows the geographic distribution of the users in our sample across the 20 most common cities. Panel C shows the distribution of users across the top 20 most common roles.

## Panel A: User Experience and Quality

	Obs	Mean	Std. Dev.
Experience	8,187	4.178	3.333
Top 50 School	8,187	0.290	0.454
Has Grad Degree	8,187	0.229	0.420

## Panel B: Distribution of Users Across Geographies (Top-20)

	Freq	Percent
New York	1,579	20.31
San Francisco	1,504	19.34
Los Angeles	698	8.98
Boston	412	5.30
Seattle	252	3.24
Chicago	226	2.91
Austin	182	2.34
Atlanta	151	1.94
San Diego	135	1.74
Denver	116	1.49
Washington DC	116	1.49
Dallas	96	1.23
Philadelphia	94	1.21
Portland	87	1.12
Houston	79	1.02
Miami	51	0.66
Minneapolis	47	0.60
Boulder	46	0.59
Phoenix	42	0.54
Pittsburgh	38	0.49
Total	5,951	76.53

**Table 1**  
**(Continued)**

Panel C: Distribution of Users Across Roles (Top-20)

	Freq	Percent
Developer	1,125	14.03
Marketing	714	8.90
Operations	518	6.46
Product Manager	462	5.76
Designer	396	4.94
Sales	382	4.76
UI/UX Designer	353	4.40
Data Scientist	331	4.13
Customer Service	299	3.73
Finance	288	3.59
Business Development	270	3.37
Business Analyst	266	3.32
Full Stack Developer	235	2.93
Project Manager	213	2.66
Frontend Developer	162	2.02
Content Creator	160	2.00
CEO	141	1.76
Operations Manager	137	1.71
Recruiter	120	1.50
Human Resources	116	1.45
Total	6,688	83.39

**Table 2**  
**Startup Summary Statistics**

This table shows summary statistics at the startup level. The sample consists of all startups that showed up in top 100 search results. Panel A shows the distribution of startups by market, across the top 20 most common markets. Panel B shows the distribution of startups across different size categories, where size is measured in terms of number of employees.

Panel A: Distribution of Startups Across Industries (Top-20)

	Freq	Percent
Mobile	1,019	9.21
E-Commerce	775	7.00
Enterprise Software	767	6.93
SaaS	534	4.83
Health Care	465	4.20
Financial Services	331	2.99
Software	285	2.58
Education	282	2.55
Technology	234	2.11
Marketplaces	223	2.02
Social Media	206	1.86
Big Data	186	1.68
Digital Media	184	1.66
Web Development	184	1.66
Real Estate	173	1.56
Health and Wellness	172	1.55
Advertising	147	1.33
Sales and Marketing	141	1.27
Food and Beverages	107	0.97
Internet of Things	104	0.94
<b>Total</b>	<b>6,519</b>	<b>58.91</b>

Panel B: Distribution of Startups Across Number of Employees

	Freq	Percent
1-10	8,873	47.65
11-50	5,715	30.69
51-200	2,564	13.77
201-500	746	4.01
501-1000	332	1.78
1001-5000	247	1.33
5000+	146	0.78
<b>Total</b>	<b>18,623</b>	<b>100.00</b>



**Table 3**  
**Search Result Summary Statistics**

This table shows summary statistics at the search result level (i.e., the user-search-startup level). Descriptives are shown limiting the sample to the top 25, top 50, and top 100 search results. Panel A shows summary statistics for the two dimensions of VC funding we study. The variable in the first three rows is an indicator equal to one if the startup in the search result was funded by a top-tier investor. The variable in the second three rows is an indicator equal to one if the startup in the search result had the top investor badge displayed. The variables in the next six rows are analogous but for recently-funded status and the recently-funded badge. Columns 3–4 limit the sample to search results that were associated with startups funded by a top-tier investor. Columns 5–6 limit the sample to search results that were associated with startups that were recently funded.

Panel A: Badges						
	All		Top Investor		Recently Funded	
	Obs	Mean	Obs	Mean	Obs	Mean
	(1)	(2)	(3)	(4)	(5)	(6)
Top Investor						
Top 25 Results	287,059	0.177	50,916	1.000	14,439	0.429
Top 50 Results	477,639	0.176	84,215	1.000	23,683	0.418
Top 100 Results	755,799	0.175	131,974	1.000	37,363	0.446
Top Investor Badge						
Top 25 Results	287,059	0.070	50,916	0.396	14,439	0.163
Top 50 Results	477,639	0.069	84,215	0.394	23,683	0.165
Top 100 Results	755,799	0.069	131,974	0.393	37,363	0.180
Recently Funded						
Top 25 Results	287,059	0.050	50,916	0.122	14,439	1.000
Top 50 Results	477,639	0.050	84,215	0.117	23,683	1.000
Top 100 Results	755,799	0.049	131,974	0.126	37,363	1.000
Recently Funded Badge						
Top 25 Results	287,059	0.020	50,916	0.048	14,439	0.403
Top 50 Results	477,639	0.020	84,215	0.048	23,683	0.410
Top 100 Results	755,799	0.021	131,974	0.052	37,363	0.416

**Table 3**  
(Continued)

Panel B shows summary statistics for the various type of clicks that we study. The variable in the first three rows is an indicator for any click, in the next three rows it is an indicator for a click for further information, in the next three rows it is an indicator for a click to start the application process, and in the final three rows it is an indicator for a click to submit an application. In columns 3–4 and 5–6 we limit the sample to results that displayed the top investor badge or that did not display the top investor badge, respectively. Columns 7–10 are defined analogously for recently funded badge. *Any Click* is an indicator for whether the search results was clicked, *Info Click* is an indicator for whether the search result was clicked for further information, *App. Click* is an indicator for whether the search result was clicked to begin the application process, *Applied* is an indicator for whether the user submitted an application, *Top Inv. Badge* is an indicator for whether the search result displayed the top investor badge, *Rec. Funded Badge* is an indicator for whether the search result displayed the recently-funded badge.

Panel B: Clicks

	All		Top Inv. Badge		No Top Inv. Badge		Rec. Funded Badge		No Rec. Funded Badge	
	Obs	Mean	Obs	Mean	Obs	Mean	Obs	Mean	Obs	Mean
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Any Click										
Top 25 Results	287,059	0.0205	20,154	0.0250	266,905	0.0202	5,821	0.0289	281,238	0.0204
Top 50 Results	477,639	0.0162	33,178	0.0208	444,461	0.0158	9,703	0.0220	467,936	0.0161
Top 100 Results	755,799	0.0124	51,909	0.0166	703,890	0.0121	15,551	0.0167	740,248	0.0123
Info Click										
Top 25 Results	287,059	0.0128	20,154	0.0155	266,905	0.0126	5,821	0.0179	281,238	0.0127
Top 50 Results	477,639	0.0098	33,178	0.0120	444,461	0.0096	9,703	0.0126	467,936	0.0097
Top 100 Results	755,799	0.0074	51,909	0.0093	703,890	0.0073	15,551	0.0093	740,248	0.0074
App. Click										
Top 25 Results	287,059	0.0078	20,154	0.0094	266,905	0.0076	5,821	0.0110	281,238	0.0077
Top 50 Results	477,639	0.0064	33,178	0.0087	444,461	0.0062	9,703	0.0094	467,936	0.0063
Top 100 Results	755,799	0.0050	51,909	0.0072	703,890	0.0049	15,551	0.0074	740,248	0.0050
Applied										
Top 25 Results	287,059	0.0050	20,154	0.0053	266,905	0.0050	5,821	0.0076	281,238	0.0049
Top 50 Results	477,639	0.0042	33,178	0.0050	444,461	0.0041	9,703	0.0066	467,936	0.0041
Top 100 Results	755,799	0.0034	51,909	0.0044	703,890	0.0033	15,551	0.0053	740,248	0.0033

**Table 4**

**Sample Balance Test**

This table tests sample balance across randomized enabling of badge visibility. The top panel compares user characteristics at the user-level, and the bottom panel compares startup characteristics at the startup-level. Columns 1-5 focus on the top investor badge and columns 6-10 focus on the recently funded badge. *Top Inv. Badge Enabled (Rec. Funded Badge Enabled)* indicates that a user would see a top investor badge if the startup was funded by a top-tier investor (was recently funded). *Top Inv. Badge Disabled (Rec. Funded Badge Disabled)* indicates that a user would not see a top investor badge even if the startup was funded by a top-tier investor (was recently funded), either because badge visibility was disabled for the user or badge display disabled for the startup.

	Top Inv. Badge Enabled		Top Inv. Badge Disabled		P-val of	Rec. Funded Badge Enabled		Rec. Funded Badge Disabled		P-val of
	Obs	Mean	Obs	Mean	T-test	Obs	Mean	Obs	Mean	T-test
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<i>User characteristics</i>										
Experience	7,820	4.165	4,023	4.184	0.386	7,810	4.158	4,071	4.212	0.198
Top School	7,820	0.294	4,023	0.290	0.334	7,810	0.293	4,071	0.295	0.452
Grad Degree	7,820	0.229	4,023	0.234	0.250	7,810	0.227	4,071	0.236	0.143
Hub Cities	7,820	0.438	4,023	0.431	0.251	7,810	0.435	4,071	0.428	0.223
Developer	7,820	0.249	4,023	0.249	0.496	7,810	0.248	4,071	0.241	0.225
Marketing	7,820	0.104	4,023	0.101	0.341	7,810	0.104	4,071	0.101	0.342
Operation	7,820	0.079	4,023	0.082	0.260	7,810	0.079	4,071	0.080	0.438
Product manager	7,820	0.083	4,023	0.086	0.311	7,810	0.084	4,071	0.085	0.418
Designer	7,820	0.130	4,023	0.126	0.301	7,810	0.129	4,071	0.130	0.461
Sales	7,820	0.091	4,023	0.093	0.309	7,810	0.091	4,071	0.089	0.334
<i>Startup characteristics</i>										
Employment	16,026	197.670	13,008	194.790	0.416	16,415	200.297	12,647	187.900	0.179
Post-B	16,929	0.094	13,745	0.091	0.177	17,346	0.092	13,369	0.093	0.409
Enterprise Software	16,929	0.045	13,745	0.045	0.441	17,346	0.045	13,369	0.045	0.466
Mobile	16,929	0.051	13,745	0.053	0.182	17,346	0.052	13,369	0.053	0.406
E-Commerce	16,929	0.047	13,745	0.049	0.200	17,346	0.048	13,369	0.049	0.340
Health Care	16,929	0.028	13,745	0.028	0.376	17,346	0.028	13,369	0.028	0.409
SaaS	16,929	0.052	13,745	0.050	0.316	17,346	0.050	13,369	0.052	0.257

**Table 5**  
**Baseline Results**

This table show our baseline findings from estimating equation 1 within the sample of top 50 search results. Variables are as defined in Table 3. Standard errors are clustered by startup. \*\*\*, \*\*, and \* indicate significance at the 1%, 5% and 10% level, respectively.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Any Click	Any Click	Info Click	Info Click	App. Click	App. Click	Applied	Applied
Investor Badge	0.0054*** (0.0011)	0.0055*** (0.0012)	0.0028*** (0.0008)	0.0029*** (0.0009)	0.0026*** (0.0008)	0.0026*** (0.0009)	0.0029*** (0.0008)	0.0029*** (0.0008)
Recently Funded Badge	0.0018 (0.0020)	0.0020 (0.0022)	0.0006 (0.0015)	0.0009 (0.0016)	0.0012 (0.0013)	0.0011 (0.0014)	0.0007 (0.0014)	0.0008 (0.0015)
Investor Badge × Recently Funded Badge		-0.0009 (0.0035)		-0.0015 (0.0026)		0.0006 (0.0027)		-0.0004 (0.0025)
Startup FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R-Squared	0.059	0.059	0.059	0.059	0.040	0.040	0.041	0.041
Observations	477,639	477,639	477,639	477,639	477,639	477,639	477,639	477,639

**Table 6**  
**Robustness**

This table shows the robustness of our baseline results in Table 5 to additional controls and alternative samples. Panel A adds startup-week fixed effects. Panel B additionally controls for user and job characteristics as well as search result rank and fixed effects for search date. Panel C limits the sample to dates prior to March 13, 2020, the date U.S. announced national emergency due to COVID. Panel D limits the sample to top 100 and top 25 search results. Standard errors are clustered by startup. \*\*\*, \*\*, and \* indicate significance at the 1%, 5% and 10% level, respectively.

Panel A. Startup-Week Effects				
	(1)	(2)	(3)	(4)
	Any Click	Info Click	App. Click	Applied
Top Investor Badge	0.0054*** (0.0012)	0.0030*** (0.0008)	0.0025*** (0.0009)	0.0027*** (0.0008)
Recently Funded Badge	0.0037* (0.0021)	0.0016 (0.0016)	0.0021 (0.0014)	0.0022 (0.0015)
Startup-Week FE	Yes	Yes	Yes	Yes
R-Squared	0.142	0.144	0.115	0.109
Observations	477,639	477,639	477,639	477,639
Panel B. Additional Controls				
	(1)	(2)	(3)	(4)
	Any Click	Info Click	App. Click	Applied
Top Investor Badge	0.0054*** (0.0011)	0.0027*** (0.0008)	0.0027*** (0.0008)	0.0030*** (0.0008)
Recently Funded Badge	0.0022 (0.0020)	0.0008 (0.0015)	0.0013 (0.0013)	0.0008 (0.0013)
Result Rank	-0.0005*** (0.0000)	-0.0004*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)
User Experience	-0.0004*** (0.0001)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0001* (0.0000)
User from Top 50 School	0.0001 (0.0004)	-0.0002 (0.0003)	0.0003 (0.0003)	0.0003 (0.0003)
User Has Grad Degree	0.0003 (0.0005)	-0.0005 (0.0004)	0.0008** (0.0003)	0.0002 (0.0003)
No Salary Info	-0.0054*** (0.0019)	-0.0029** (0.0014)	-0.0025** (0.0011)	-0.0025** (0.0011)
Ln(Salary)	0.0013*** (0.0005)	0.0011*** (0.0004)	0.0002 (0.0003)	0.0002 (0.0003)
Equity Stake	-0.0000 (0.0001)	0.0000 (0.0001)	-0.0000 (0.0001)	-0.0000 (0.0001)
Part-Time Job	-0.0028* (0.0015)	-0.0009 (0.0011)	-0.0019** (0.0008)	-0.0009 (0.0008)
Remote Job	-0.0142*** (0.0014)	-0.0104*** (0.0010)	-0.0038*** (0.0007)	-0.0038*** (0.0008)
Startup FE	Yes	Yes	Yes	Yes
Search date FE	Yes	Yes	Yes	Yes
R-Squared	0.028	0.025	0.008	0.007
Observations	477,639	477,639	477,639	477,639

**Table 6**  
(Continued)

Panel C: Pre-COVID (March 13, 2020)

	(1)	(2)	(3)	(4)
	Any Click	Info Click	App. Click	Applied
Top Investor Badge	0.0052*** (0.0013)	0.0027*** (0.0010)	0.0026*** (0.0009)	0.0033*** (0.0009)
Recently Funded Badge	0.0006 (0.0023)	-0.0009 (0.0017)	0.0016 (0.0015)	0.0018 (0.0017)
Startup FE	Yes	Yes	Yes	Yes
R-Squared	0.069	0.070	0.047	0.050
Observations	345,438	345,438	345,438	345,438

Panel D: Alternative Result Rank Cutoffs

	Any Click		Info Click		App. Click		Applied	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Top 100	Top 25	Top 100	Top 25	Top 100	Top 25	Top 100	Top 25
Top Investor Badge	0.0045*** (0.0008)	0.0061*** (0.0016)	0.0021*** (0.0006)	0.0038*** (0.0013)	0.0024*** (0.0006)	0.0023** (0.0011)	0.0027*** (0.0005)	0.0031*** (0.0011)
Recently Funded Badge	0.0015 (0.0013)	0.0014 (0.0029)	0.0005 (0.0009)	0.0016 (0.0023)	0.0010 (0.0009)	-0.0002 (0.0018)	0.0008 (0.0009)	0.0002 (0.0020)
Startup FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
R-Squared	0.048	0.077	0.048	0.077	0.032	0.053	0.031	0.055
Observations	755,799	287,059	755,799	287,059	755,799	287,059	755,799	287,059

**Table 7****Heterogeneity by Startup Financing Stage**

This table repeats the analysis of Table 5 splitting the sample by startup's financing stage. *Early* indicates that a startup's financing stage at the time of search is before Series B. *Late* indicates that a startup's financing stage at the time of search is at or after Series B. P-value of difference in coefficients on *Top Investor Badge* across subsamples is reported at the bottom of the table. The sample only includes startups for which we have financing information. Standard errors are clustered by startup. \*\*\*, \*\*, and \* indicate significance at the 1%, 5% and 10% level, respectively.

Financing Stage	Any Click		Info Click		App. Click		Applied	
	(1) Early	(2) Late	(3) Early	(4) Late	(5) Early	(6) Late	(7) Early	(8) Late
Top Investor Badge	0.0094*** (0.0019)	0.0033** (0.0014)	0.0051*** (0.0014)	0.0016 (0.0010)	0.0043*** (0.0014)	0.0016 (0.0010)	0.0056*** (0.0012)	0.0014 (0.0010)
Recently Funded Badge	-0.0011 (0.0023)	0.0074** (0.0035)	-0.0008 (0.0018)	0.0034 (0.0024)	-0.0003 (0.0015)	0.0041* (0.0022)	-0.0005 (0.0017)	0.0030 (0.0021)
Startup FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
P-Value of Difference	0.008	0.008	0.049	0.049	0.118	0.118	0.006	0.006
R-Squared	0.051	0.020	0.051	0.019	0.036	0.015	0.034	0.015
Observations	173,450	94,783	173,450	94,783	173,450	94,783	173,450	94,783

**Table 8****Heterogeneity by User Geography**

This table repeats the analysis of Table 5 splitting the sample by candidate location. Candidates are defined as being in an innovation hub if they are located in San Francisco Bay Area, New York, or Boston. \*\*\*, \*\*, and \* indicate significance at the 1%, 5% and 10% level, respectively.

	Any Click		Info Click		App. Click		Applied	
	(1) Yes	(2) No	(3) Yes	(4) No	(5) Yes	(6) No	(7) Yes	(8) No
Innovation Hubs								
Top Investor Badge	0.0082*** (0.0014)	0.0007 (0.0017)	0.0035*** (0.0010)	0.0019 (0.0015)	0.0047*** (0.0011)	-0.0012 (0.0010)	0.0044*** (0.0011)	0.0001 (0.0009)
Recently Funded Badge	0.0006 (0.0027)	0.0038 (0.0033)	-0.0005 (0.0020)	0.0026 (0.0026)	0.0011 (0.0017)	0.0013 (0.0018)	0.0007 (0.0017)	0.0008 (0.0020)
Startup FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
P-Value of Difference	0.000	0.000	0.345	0.345	0.000	0.000	0.001	0.001
R-Squared	0.017	0.038	0.021	0.039	-0.004	0.013	-0.001	0.012
Observations	249,996	227,643	249,996	227,643	249,996	227,643	249,996	227,643



**Table 9**  
**Heterogeneity by User Quality**

This table repeats the analysis of Table 5 splitting the sample by various measures of high candidate quality: above median number of years of experience (columns 1-2), graduated from a top 50 school (columns 3-4), or having a graduate degree (columns 5-6). Standard errors are clustered by startup. \*\*\*, \*\*, and \* indicate significance at the 1%, 5% and 10% level, respectively.

	Any Click					
	(1) Experienced	(2) Inexperienced	(3) Top Schools	(4) Non-Top Schools	(5) Grad Degree	(6) No Grad Degree
Top Investor Badge	0.0046** (0.0018)	0.0063*** (0.0015)	0.0051** (0.0021)	0.0057*** (0.0013)	0.0062*** (0.0024)	0.0053*** (0.0013)
Recently Funded Badge	0.0020 (0.0032)	0.0017 (0.0029)	0.0027 (0.0038)	0.0009 (0.0022)	0.0120*** (0.0045)	-0.0008 (0.0023)
Startup FE	Yes	Yes	Yes	Yes	Yes	Yes
P-Value of Difference	0.445	0.445	0.828	0.828	0.728	0.728
R-Squared	0.032	0.027	0.029	0.029	0.041	0.025
Observations	216,960	260,679	153,528	324,111	105,378	372,261