

## Inequality at Work: The Effect of Peer Salaries on Job Satisfaction<sup>†</sup>

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We study the effect of disclosing information on peers' salaries on workers' job satisfaction and job search intentions. A randomly chosen subset of employees of the University of California was informed about a new website listing the pay of University employees. We find an asymmetric response to the information about peer salaries: workers with salaries below the median for their pay unit and occupation report lower pay and job satisfaction, while those earning above the median report no higher satisfaction. Likewise, below-median earners report a significant increase in the likelihood of looking for a new job, while above-median earners are unaffected. Thus, job satisfaction depends on relative pay comparisons, and this relationship is nonlinear.

Economists have long been interested in the possibility that individuals care about both their absolute income and their income relative to others.<sup>1</sup> Recent studies have documented systematic correlations between relative income and job satisfaction (e.g., Clark and Oswald 1996), happiness (e.g., Luttmer 2005 and Solnick and Hemenway 1998), health and longevity (e.g., Marmot 2004), and reward-related brain activity (e.g., Fliessbach et al. 2007).<sup>2</sup> Despite confirmatory findings from laboratory experiments (e.g., Fehr and Schmidt 1999), the interpretation of the empirical evidence is not always straightforward. Relative pay effects pose a daunting challenge for research design, since credible identification hinges on the ability to isolate exogenous variation in the pay of the relevant peer group.

In this paper we propose and implement a new strategy for evaluating the effect of relative pay comparisons, based on a randomized manipulation of access to

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<sup>1</sup>The classic early reference is Veblen (1899). Modern formal analysis began with the relative income model of consumption in Duesenberry (1949). Easterlin (1974) used this model to explain the weak link between national income growth and happiness. Hamermesh (1975) presents a seminal analysis of the effect of relative pay on worker effort. Akerlof and Yellen (1990) provide an extensive review of the literature (mostly outside economics) on the impact of relative pay comparisons.

<sup>2</sup>Other studies have found a more important role for absolute income than relative income; e.g., Stevenson and Wolfers (2008). Kuhn et al. (2011) find that people do not experience reduced happiness when their neighbors win the lottery.

information on coworkers' salaries.<sup>3</sup> Following a court decision on California's "right to know" law, the *Sacramento Bee* newspaper established a website ([www.sacbee.com/statepay](http://www.sacbee.com/statepay)) in early 2008 that made it possible to search for the salary of any state employee, including faculty and staff at the University of California (UC). In the months after this website was launched, we contacted a random subset of employees at three UC campuses, informing them about the existence of the site. A few days later we surveyed all campus employees, eliciting information about their use of the *Sacramento Bee* website, their pay and job satisfaction, and their job search intentions. We compare the answers of people in the treatment group (who were informed about the site) to those of the control group (who were not). We match administrative salary data to the survey responses to examine how the effects of the information treatment depend on an individual's earnings relative to his or her peers, defined as coworkers in the same occupation group (faculty versus staff) and administrative unit (i.e., department or school) within the university.

Our information treatment had a large impact on use of the *Sacramento Bee* website, raising the fraction of people who accessed the site from 20 percent to nearly 50 percent. Four-fifths of the new users reported that they investigated the earnings of colleagues in their own department or pay unit. This strong "first stage" result establishes that workers are interested in coworkers' pay—particularly the pay of peers in the same department—and that information manipulation is a powerful and practical way to estimate the effects of relative pay on workers.

Accessing information on the *Sacramento Bee* website allows employees to update their beliefs about their peers' pay. In a relative income model this information treatment will have a negative effect on the job satisfaction of lower-earning workers in a peer group, and a positive effect on higher-earning workers. If satisfaction is a concave function of relative pay, as assumed in the inequality aversion model of Fehr and Schmidt (1999), the negative effects on low-wage earners will be larger than the positive effects on high-wage earners. In our experiment, we find that the information treatment caused a reduction in job satisfaction among workers with pay below the median for their department and occupation group, and an increase in their intention to look for a new job. By comparison, treatment group members who were paid above the median report no significant changes in job satisfaction or job search intentions. Responses to the treatment appear to be more closely related to an individual's rank in the salary distribution than to his or her relative pay level, and to be strongest among people in the lowest quartile of the pay distribution of their unit. We also study the effect of the information treatment on actual turnover and find some suggestive evidence of an effect on the job-leaving rates, particularly for those in the first quartile of pay in their unit.

Our results provide credible field-based confirmation of the importance of relative pay comparisons that have been identified in earlier observational studies of job turnover (Kwon and Milgrom 2008), job satisfaction (Clark and Oswald 1996; Hamermesh 2001), happiness (Frey and Stutzer 2002; Luttmer 2005), and in some

<sup>3</sup>A number of recent empirical studies have used similar manipulations of information to uncover the effects of various policies. See Hastings and Weinstein (2008) on school quality; Jensen (2010) on returns to education in developing countries; Chetty, Looney, and Kroft (2009) on sales taxes; Chetty and Saez (2009) on the Earned Income Tax Credit; and Kling et al. (2012) on Medicare prescription drug plans.

(but not all) lab-based studies.<sup>4</sup> They lend specific support to the hypothesis that negative comparisons matter more than positive comparisons for a worker's perceived job satisfaction. Our findings also contribute to the literature on pay secrecy policies.<sup>5</sup> About one-third of US companies have "no-disclosure" contracts that forbid employees from discussing their pay with coworkers. Such contracts are controversial and are explicitly outlawed in several states. Our finding of an asymmetric impact of access to pay information suggests that employers have an incentive to maintain pay secrecy, since the costs for lower-paid employees exceed the benefits for their high-wage peers.

The remainder of the paper is organized as follows. Section I presents a simple conceptual framework for structuring our empirical investigation. Section II describes the experimental design, our data collection and assembly procedures, and selection issues. Section III presents our main empirical results. Section IV concludes. Supplementary results are gathered in an online Appendix.

### I. Conceptual Framework

Theoretically there are two broad reasons why information on peer salaries may affect workers' utilities. In this section we briefly discuss them. A more extensive development is presented in Card et al. (2010).

*Relative Income Model.*—A first reason why information on peer salaries may affect utility is that workers care directly about relative pay, as in Clark and Oswald (1996). Consider a worker whose own wage is  $w$  and who compares her wage to a reference level, denoted  $m$ , which is a function of the wages of coworkers in her reference group. The agent has incomplete information about coworkers' wages, and therefore of  $m$ . Let  $I$  denote the information set available to the worker: we assume that our experiment changes the information set from  $I^0$  to  $I^1$ . Assume that the worker's job satisfaction, given information set  $I$ , can be written as

$$(1) \quad S(w, I) = u(w) + v(w - E[m|I]) + e,$$

where  $u(\cdot)$  represents the utility from her own pay,  $e$  is an individual-specific term representing random taste variation, and  $v(\cdot)$  represents feelings arising from relative pay comparisons. With suitable choices for the functions  $u(\cdot)$  and  $v(\cdot)$ , this specification encompasses most of the functional forms that have been proposed in the literature on relative pay. We assume that in the absence of the website, individuals

<sup>4</sup>Lab-based experimental studies have developed a series of games such as the dictator game, the ultimatum game, and the trust game (see Rabin 1998 for a survey) showing evidence that relative outcomes matter. See in particular Fehr and Falk (1999), Fehr and Schmidt (1999), Charness and Rabin (2002), and Clark, Masclet, and Villeval (2010) for lab evidence of relative pay effects. Note, however, that in experimental effort games, Charness and Kuhn (2007) and Bartling and von Siemens (2011) find that workers' effort is highly sensitive to their own wages, but unaffected by coworker wages. Following the theory that ordinal rank matters proposed in psychology by Parducci (1995), some lab studies have shown that rank itself matters (see, e.g., Brown et al. 2008 and Kuziemko et al. 2011).

<sup>5</sup>The seminal work on pay secrecy is Lawler (1965). Futrell (1978) presents a comparison of managerial performance under pay secrecy and disclosure policies, while Manning and Avolio (1985) study the effects of pay disclosure of faculty salaries in a student newspaper. Most recently Danziger and Katz (1997) argue that employers use pay secrecy policies to reduce labor mobility and raise monopsonistic profits.

only know their own salaries, and that they hold a prior for  $m$  that is centered on their own wage; i.e.,  $E[m|I^0] = w$ .

Under these assumptions, job satisfaction in the absence of external information is

$$S(w, I^0) = u(w) + v(w - E[m|I^0]) + e = u(w) + e,$$

where we assume (without loss of generality) that  $v(0) = 0$ . With access to the website we assume that individuals can observe  $m$  perfectly.<sup>6</sup> Then job satisfaction conditional on using the website is

$$S(w, I^1) = u(w) + v(w - E[m|I^1]) + e = u(w) + v(w - m) + e.$$

With additive preferences, the change in the information set from  $I^0$  to  $I^1$  leads to a change in job satisfaction that depends directly on  $v(w - m)$ . Assuming that  $v(\cdot)$  is increasing, learning about coworker pay will reduce the satisfaction of low-paid workers and increase the satisfaction of high-paid workers. If in addition  $v(\cdot)$  is concave, as is assumed by Fehr and Schmidt (1999), workers with  $w < m$  will experience relatively large reductions in satisfaction, while those with  $w \geq m$  will experience only modest increases.

For purposes of estimation we will assume that the reference-group consists of workers in the same department or administrative unit and faculty/staff grouping.<sup>7</sup> We test for concavity in  $v(\cdot)$  by specifying this function as piecewise linear with a different slope above and below the median salary within a worker's reference group. We do not view this specification as a literal description of individual preferences, but rather as a simple way to trace out the treatment response function to test whether there are heterogeneous effects depending on relative income, and whether these effects are nonlinear.

*Rational Updating.*—People may react to new information on coworker salaries even if they do not care directly about relative pay. In particular, it is possible that workers have no direct concern over peer salaries, but rationally use this information to update their future pay prospects. If coworker wages provide a signal about future wages, either through career advancement or a bargaining process, learning that one's wage is low (high) relative to coworkers' salaries leads to updating expected future wage upward (downward). In this model, the revelation of coworkers' salaries raises the job satisfaction of relatively low-wage workers and lowers the satisfaction of relatively high-wage workers. Thus, in contrast to the relative utility model above, learning that one is paid less than one's peers is "good news," while learning that one is paid more is "bad news." See Card et al. (2010) for details on this model.<sup>8</sup> Our randomized design allows us to measure the effect of information

<sup>6</sup>The complete information assumption can be relaxed without substantively changing the model.

<sup>7</sup>As discussed below, we find that a large majority of new users who were prompted to look at the site by our information treatment examined the pay of colleagues in their own department. We take this as evidence that the department is the relevant comparison unit.

<sup>8</sup>Of course, other reactions to updating are possible. For example, a worker who learns that her coworkers are highly paid may revise upward her expected future wages, but may experience a decline in job satisfaction because she has to enter into a costly bargaining process with her employer. We thank a referee for pointing out this possibility.

revelation for workers at different points in the salary distribution and thus provide some evidence on the relative merit of these two models.

*Incomplete Compliance.*—In the theoretical model above we have implicitly assumed that all treated individuals access the website salary information, whereas none of the control group have access to this information. In practice, however, some members of both the treatment and control groups had used the website prior to our intervention, and not all members of the treatment group used the website after receiving treatment.<sup>9</sup> Thus, some of the treatment group were uninformed, while some of the control group were informed. As in other experimental studies this incomplete compliance raises potential difficulties for the interpretation of our empirical results.

Let  $T$  denote the treatment status of a given individual ( $T = 0$  for the control group;  $T = 1$  for the treatment group), and let  $\pi_0 = E[D|T = 0, w, m]$  and  $\pi_1 = E[D|T = 1, w, m]$  denote the probabilities of being informed (denoted by  $D = 1$ ) conditional on treatment status, individual wages, and peer mean wages. With this notation, equation (1) becomes

$$(2) \quad S = u(w) + \pi_0 \cdot v(w - m) + T \cdot (\pi_1 - \pi_0) \cdot v(w - m) + e + \phi,$$

where  $\phi$  is an error component reflecting the deviation of an individual's actual information status from his or her expected status.<sup>10</sup> Under the *assumption* that the “information treatment intensity”  $\delta \equiv \pi_1 - \pi_0$  is constant across individuals, equation (2) implies that the observed treatment response function in our experiment is simply an attenuated version of the “full compliance” treatment effect, with an attenuation factor of  $\delta$ . Below, we estimate a variety of “first stage” models that measure the effect of the information treatment on use of the *Sacramento Bee* website, including models that allow the treatment effect to vary with functions of  $(w - m)$ . We find that the information treatment intensity is independent of the observed characteristics of individuals, including their wage and relative wage, suggesting that we can interpret our estimated models as variants of equation (2) with a uniformly attenuated treatment response.<sup>11</sup>

## II. Data and Experimental Design

### A. The Experiment

In March 2008, the *Sacramento Bee* posted a searchable database at [www.sacbee.com/statepay](http://www.sacbee.com/statepay) containing individual pay information for California public employees including workers at the University of California system. Although

<sup>9</sup>Some treated employees may have failed to read our initial e-mail informing them of the website. Others may have been concerned about clicking a link in an unsolicited e-mail, and decided not to access the site.

<sup>10</sup>Formally,  $\phi = [D - T\pi_1 - (1 - T)\pi_0]v(w - m)$ . This term is mean-independent of the conditioning variables in  $\pi_0$  and  $\pi_1$ .

<sup>11</sup>In the more general case in which the information treatment varies with  $w$  and  $m$  the experimental response reflects a combination of the variation in the information treatment effect ( $\pi_1 - \pi_0$ ) and the difference in satisfaction in the presence or absence of information ( $v(w - m)$ ).

public employee salaries have always been considered “public” information in California, in practice access to salary data was extremely restrictive and required a written request to the state or the UC. The *Bee* database was the first to make this information easily accessible. At its inception, the database contained pay information for calendar year 2007 for all UC workers (excluding students and casual workers) as well as monthly pay for all other state workers.

In Spring 2008, we decided to conduct an experiment to measure the reactions of employees to the availability of information on the salaries of their coworkers. We elected to use a randomized design with stratification by department (or pay unit). Ultimately we focused on three UC campuses: UC Santa Cruz (UCSC), UC San Diego (UCSD), and UC Los Angeles (UCLA), using the online personnel directories for each institution as the basis for our sample.<sup>12</sup> Our information treatment consisted of an e-mail (sent from special e-mail accounts established at UC Berkeley and Princeton) informing recipients of the existence of the *Bee* website, and asking them to report whether they were aware of the existence of the site or not. The e-mails were sent in October 2008 for UCSC, in November 2008 for UCSD, and in May 2009 for UCLA. The exact text of the e-mail was as follows:

*We are Professors of Economics at Princeton University and Cal Berkeley conducting a research project on pay inequality at the University of California. The Sacramento Bee newspaper has launched a website listing the salaries for all State of California employees, including UC employees. The website is located at [www.sacbee.com/statepay](http://www.sacbee.com/statepay) or can be found by searching “Sacramento Bee salary database” with Google. As part of our research project, we wanted to ask you: Did you know about the Sacramento Bee salary database website?*

About 40 percent of employees at UCSC, 25 percent of employees at UCSD, and 37.5 percent of employees at UCLA received this information treatment. Our experimental design is described in Appendix Table A0. We stratified by department to allow for the testing of peer interactions in the response to treatment.<sup>13</sup> As shown in detail in Card et al. (2010), however, there is no evidence of such interactions, and we therefore ignore them in the analysis below. We always cluster our standard errors at the department  $\times$  occupation (staff versus faculty) level to reflect the stratified design.

We also randomly selected a subset of UCLA employees to receive a “placebo treatment.” As in the treatment group, workers in the placebo group received an e-mail with an introduction explaining that we were conducting a study of pay inequality. The placebo described a UC website listing the salaries of top UC administrators and asked recipients to fill out a one-question survey on their knowledge of the site. Importantly, this alternative website provided no information on salaries of typical UC workers. We use responses from people who received the placebo treatment to assess our interpretation of the responses to our primary treatment in

<sup>12</sup>The online directories contain e-mail addresses, as well as employee names, job titles, and departments.

<sup>13</sup>At each campus, a fraction of departments was randomly selected for treatment (two-thirds of departments at UC Santa Cruz; one-half at the other two campuses). Within each treated department, a random fraction of employees was selected for treatment (60 percent at UC Santa Cruz; 50 percent at UC San Diego; 75 percent at UCLA).



light of possible confounders, including priming effects due to the language of the treatment e-mail, and differential response rates between treatments and controls.

Three to ten days after the initial treatment e-mails were sent, we sent e-mails to *all* employees at each campus asking them to respond to a survey. This follow-up survey (reproduced in the online Appendix) included questions on knowledge and use of the *Sacramento Bee* website, on job satisfaction and future job search intentions, on the respondent's age and gender, and on the length of time they had worked in their current position and at the University of California. The survey was completed online by following a personalized link to a website. In an effort to raise response rates, we randomly assigned a fraction of employees to be offered a chance at one of three \$1,000 prizes for people who completed the survey.<sup>14</sup> In addition, we sent up to two additional e-mail reminders asking people to complete the follow-up survey.

### B. Survey Responses

Our final dataset combines campus and department identifiers from the online directories, treatment status information, follow-up survey responses, and administrative salary data for employees at the three campuses.<sup>15</sup> Overall, just over 20 percent of employees at the three campuses responded to our follow-up survey (online Appendix Table A1). While comparable to the response rates in many other nongovernmental surveys, this is still a relatively low rate, leading to some concern that the respondent sample differs systematically from the overall population of UC employees. A particular concern is that response rates may be affected by our information treatment, potentially confounding any measured treatment effects on job satisfaction.

Table 1 presents a series of linear probability models for the event that an individual responded to our follow-up survey. The model in column 1 is fit to the overall universe of 41,975 names that we extracted from the online directories and were subject to random assignment. The models in columns 2–4 are fit on the subset of 31,887 names we were able to match to the administrative salary data. The coefficient estimates in column 1 point to three notable conclusions. First, the response rate for people who could be matched to the administrative salary data is significantly higher (+3.4 percentage points) than for those who could not. Second, assignment to *either* the information treatment or the placebo treatment had a significant negative effect on response rates, on the order of –4 to –5 percentage points. This pattern suggests that there was a “nuisance” effect of being sent two e-mails that lowered response rates to the follow-up survey independently of the content of the first e-mail. Third, being offered the response incentive had a sizeable positive (+4 percentage point) effect on response rates.

<sup>14</sup>More precisely, all respondents were eligible for the prize, but only a randomly selected sample were told about it (see online Appendix Table A0 for complete details).

<sup>15</sup>The salary data—which were obtained from the same official sources used by the *Sacramento Bee*—include employee name, base salary, and total wage payments from the UC for calendar year 2007. We matched the salary data to the online directory database by first and last name, dropping all cases for which the match was not one-to-one (i.e., any cases where two or more employees had the same first and last name). Online Appendix Table A1 presents some summary statistics on the success of our matching procedures. Overall, we were able to match about 76 percent of names. The match rate varies by campus, with a high of 81 percent at UCSD and a low of 71 percent at UCSC. We believe that these differences are explained by differences in the quality and timeliness of the information in the online directories at the three campuses.

TABLE 1—DETERMINANTS OF SURVEY RESPONSE

	Overall sample	Subsample matched to wage data		
	( <i>N</i> = 41,975)	( <i>N</i> = 31,887)		
All coefficients × 100	(1)	(2)	(3)	(4)
Dummy if match to wage	3.37 (0.58)	—	—	—
<i>Treatment effects:</i>				
Treated individual (all in treated departments)	−3.81 (0.54)	−3.74 (0.62)	−3.82 (0.61)	—
Placebo individual (all in placebo departments)	−5.46 (0.88)	−5.98 (1.03)	−5.89 (1.01)	−5.90 (1.01)
<i>Response incentive effects:</i>				
Offered prize	4.25 (0.76)	4.32 (0.86)	4.23 (0.86)	4.24 (0.86)
<i>Treatment effects based on relative wage:</i>				
Treated individual earning less than median in pay unit	—	—	—	−3.60 (0.79)
Treated individual earning more than median in pay unit	—	—	—	−4.04 (0.81)
Dummy if earnings less than median in pay unit	—	—	—	−0.69 (0.73)
Cubic in earnings?	No	No	Yes	Yes

*Notes:* All models are estimated by ordinary least squares (OLS). Standard errors, clustered by campus/department, are in parentheses (1,078 clusters for models in column 1; 1,044 for columns 2–4). Dependent variable in all models is dummy for responding to survey (mean = 0.204 for column 1; mean = 0.214 for columns 2–4). All models include interacted effects for campus and faculty or staff status (5 dummies). “Earnings” refers to total UC payments in 2007. Pay unit refers to faculty or staff members in an individual’s department. Column 1 includes the full sample while columns 2–4 include only the subsample successfully matched to the administrative salary data for 2007. Columns 3–4 include earnings controls (up to cubic term). Column 4 includes interactions of treatment and relative earnings in the unit.

The models in columns 2–3 are based on the subset of people who can be matched to earnings data, with and without the addition of a cubic polynomial in individual earnings as an extra control. In both cases the estimates are very close to those in column 1. Finally, in anticipation of the treatment effect models estimated below, the specification in column 4 allows for a differential treatment effect on response rates for people whose earnings are above or below the median for their occupation and pay unit. The estimation results suggest that the negative response effect of treatment assignment is very similar for people with above-median earnings (−4.0 percent) and below-median earnings (−3.6 percent), and we cannot reject a homogeneous effect. We also fit a variety of richer models allowing interactions between earnings and treatment status, and allowing a potential kink in the effect of earnings at the median of the pay unit. In none of these models could we reject the homogeneous effects specification presented in column 4.

Overall, the negative effect of the information treatment on the response rate is modest in magnitude (about a 15 percent reduction in the likelihood of responding), but it is highly statistically significant. The response gap poses a potential threat to the interpretation of our treatment effect estimates, which rely on data from survey respondents. The very similar negative effects of the information treatment and the



TABLE 2—COMPARISON OF TREATED AND NONTREATED INDIVIDUALS

	Mean of control group <sup>a</sup> (1)	Mean of treatment group (2)	Difference (adjusted for campus) (3)	<i>t</i> -test (4)
<i>Overall sample (N = 41,975)</i>				
Percent faculty	16.2	19.1	1.47 (1.61)	0.91
Percent matched to wage data	76.3	75.2	0.12 (1.15)	0.10
<i>Sample matched to wage data (N = 31,887)</i>				
Mean base earnings (\$1,000s)	54.73	58.26	2.50 (1.23)	2.04
Mean total earnings (base + supplements, \$1,000s)	63.35	66.93	2.34 (1.91)	1.22
Percent with total earnings < \$20,000	13.2	12.8	-0.37 (0.77)	0.47
Percent with total earnings > \$100,000	15.3	16.9	0.90 (1.16)	0.77
Percent responded to survey with nonmissing responses for 8 key variables	21.1	17.8	-2.76 (0.61)	4.49
<i>Survey respondents with wage data and nonmissing values (N = 6,411)</i>				
Percent faculty	15.0	17.9	1.22 (1.79)	0.68
Mean total earnings (base + supplements, \$1,000s)	65.61	69.09	1.69 (2.23)	0.75
Percent female	60.9	61.0	0.43 (1.79)	0.24
Percent age 35 or older	72.9	75.9	1.68 (1.46)	1.15
Percent employed at UC 6 years or more	59.1	62.7	1.03 (1.67)	0.62
Percent in current position 6 years or more	40.3	43.8	1.76 (1.63)	1.08

*Notes:* Entries represent means for treated and untreated individuals in indicated samples. Difference between mean for treatment and control groups, adjusting for campus effects to reflect the experimental design, is presented in along with estimated standard errors (in parentheses), clustered by campus/department. The *t*-test for difference in means of treatment and control group is presented in column 4.

<sup>a</sup> Includes placebo treatment group (at UCLA only).

placebo treatment, however, suggest that the reduced response rate was not attributable to the content of the treatment e-mail. In light of this fact, we use the survey responses of the placebo group to test whether the responses of the treatment group contain significant selection biases.<sup>16</sup>

### C. Summary Statistics

Table 2 presents a comparison of employees who were assigned to receive our information treatment and those who were not. For simplicity we refer to these two

<sup>16</sup> As discussed below, analysis of the placebo group also allows us to investigate potential priming effects associated with the wording of a cover e-mail sent with both the main treatment and the placebo treatment.

groups as the treatment and control groups of the experiment.<sup>17</sup> Beginning with the overall sample in the first panel of the table, note that only about 17 percent of our sample are faculty members. The vast majority are staff, including administrators, employees of the medical centers at two of the campuses, and support staff. As expected given random assignment, the fractions of faculty in the treatment and control groups are not significantly different, after adjusting for campus effects to reflect the differential rates of assignment to treatment at the three campuses. About three-quarters of our overall sample can be matched to salary data. Again, the fractions matched to salary data in the treatment and control group are very close to equality, consistent with random assignment.

The next panel pertains to the subset of employees who could be matched to earnings data. Base earnings (which exclude overtime, extra payments, etc.) are slightly higher for the treatment group than the control group ( $t = 2.0$ ), but the gap in *total* earnings (which include overtime and supplements like summer pay and housing allowances) is smaller and not significant. As noted above, among those with earnings data the fraction of the treatment group who responded to our follow-up survey is about three percentage points lower than the rate for the controls, and the difference is highly significant ( $t = 4.5$ ).

Finally, the bottom panel of Table 2 presents comparisons in our main analysis sample, which consists of the 6,411 people who responded to our follow-up survey (with nonmissing responses for the key outcome variables) and can be matched to administrative salary data. This sample is comprised of 85 percent staff and 15 percent faculty, with mean total earnings of around \$67,000. Within the analysis sample the probability of treatment is statistically unrelated to age, tenure at UC, tenure at the current job position, gender, and wages.<sup>18</sup> This provides very reassuring evidence that there was no systematic differential selection across treatment and control groups for responding to our survey, at least based on observable demographic variables. Selection due to unobservable factors remains a possibility that we address using the placebo treatment, as described below.

### III. Empirical Results

We now turn to our main analysis of the effects of the information treatment. Except in Section IIID, we restrict attention to the subsample of survey respondents in our main analysis sample.

#### A. Effect on Use of the Sacramento Bee Website

We begin in Table 3 by estimating a series of linear probability models that quantify the *first-stage* effect of our information treatment on use of the *Sacramento Bee*

<sup>17</sup> Here the control group includes the group of workers who received the placebo treatment.

<sup>18</sup> We also fit a logit for individual treatment status, including campus dummies (to reflect the design of the experiment) and a set of 15 additional covariates: 3 dummies for age category, 4 dummies for tenure at the UC, 4 dummies for tenure in current position, a dummy for gender, and a cubic in total earnings received from UC. The  $p$ -value for exclusion of the 15 covariates is 0.74.

TABLE 3—EFFECT OF TREATMENT ON USE OF *SACRAMENTO BEE* WEBSITE

	(1)	(2)	(3)	(4)	(5)
Treated individual (coefficient $\times$ 100)	28.3 (1.6)	28.3 (1.6)	28.5 (1.6)	—	28.3 (2.0)
Treated individual earning less than median in pay unit (coefficient $\times$ 100)	—	—	—	29.3 (2.1)	—
Treated individual earning more than median in pay unit (coefficient $\times$ 100)	—	—	—	27.7 (2.0)	—
Treated individual $\times$ deviation of earnings from median in pay unit (coefficient $\times$ 100)	—	—	—	—	-0.4 (0.7)
Treated individual $\times$ deviation of earnings from median in pay unit if deviation positive (coefficient $\times$ 100)	—	—	—	—	0.3 (0.9)
Dummy for response incentive (test for selection bias in respondent sample)	—	0.0 (1.8)	—	—	—
Dummy for earnings less than median in pay unit (coefficient $\times$ 100)	—	—	—	-1.6 (1.8)	—
Deviation of earnings from median (coefficient $\times$ 100)	—	—	—	—	-0.1 (0.40)
Deviation of earnings from median if deviation positive (coefficient $\times$ 100)	—	—	—	—	0.4 (0.50)
Controls for campus $\times$ (staff/faculty) and cubic in earnings?	Yes	Yes	Yes	Yes	Yes
Demographic controls (gender, age, tenure, and time in position)	No	No	Yes	Yes	Yes
<i>p</i> -value for test against model in column 3	—	—	—	0.64	0.76

Notes: All models are estimated by OLS. Standard errors, clustered by campus/department, are in parentheses (818 clusters for all models). Dependent variable in all models is dummy for using the *Sacramento Bee* website (mean for control group = 19.2 percent; mean for treatment group = 49.4 percent; overall mean = 27.6 percent). “Earnings” refers to total UC payments in 2007. Deviation of earnings from median are expressed in \$10,000s. Pay unit refers to faculty or staff members in an individual’s department. All models with interaction terms also include main effects. The sample size is 6,411.

website.<sup>19</sup> The mean rate of use reported by the control group is 19.1 percent. As shown by the model in column 1, the information treatment more than doubles that rate (by +28 percentage points) to a mean rate of almost 50 percent.

In column 2 we include a dummy indicating whether the individual was offered a (randomly assigned) monetary response incentive. The coefficient estimate for the treatment dummy is the same as in column 1, and the coefficient on the incentive dummy is very close to 0. Column 3 shows a model in which we add in demographic controls (gender, age dummies, and dummies for tenure at the UC and tenure in current position). These variables have some explanatory power (e.g., women are about five percentage points less likely to use the website than men with  $t = 4.3$ ), but their addition has no impact on the effect of the information treatment.

As discussed above, because of incomplete compliance, the interpretation of the observed treatment response as an attenuated version of equation (2) requires that the information treatment intensity is independent of an individual’s wage or relative wage. This assumption might be violated if high-paid individuals within a unit

<sup>19</sup> All the models include controls for campus and faculty/staff status (fully interacted) as well as a cubic polynomial in total individual pay. The faculty/staff and individual pay controls have no effect on the size of the estimated treatment effect but do contribute to explanatory power.

have better information about their relative salary than low-paid individuals. This could be true among staff, for example, if the department manager, who is higher paid, sets or reviews staff salaries.

This potential complication motivates the analysis in columns 4 and 5 of Table 3. The specification in column 4 allows separate treatment effects for people paid above or below the median for their pay unit (defined as the intersection of department and faculty-staff status). The estimated treatment effects are very similar in magnitude and we cannot reject identical effects ( $p = 0.64$ , reported in the bottom row of the table). The specification in column 5 allows a main effect for treatment, and an interaction of treatment status with earnings relative to the median earnings in the pay unit, with a potential kink in the interaction term when salary exceeds the median salary in the pay unit. The interaction terms are very small in magnitude and again we cannot reject heterogeneous treatment effects across relative salary levels ( $p = 0.76$ ). We have fit many other interacted specifications and in all cases find that the information treatment had a large and relatively homogeneous effect on the use of the *Sacramento Bee* website.<sup>20</sup> Overall, we believe that the evidence is quite consistent with the hypothesis that the information treatment had a homogeneous effect on the use of the website, suggesting that the new information was similar for higher- and lower-paid people.

In our UCLA survey we also collected information on what types of information users of the *Bee* website had actually checked. As shown in Appendix Table A2, among “new users” who were prompted to look at the site by our information treatment, 87 percent examined the pay of colleagues in their own department, while 54 percent examined the pay of colleagues in a different department in their campus. Only about a quarter examined the pay of colleagues at different campuses, or high-profile UC employees. The effects are very similar for employees paid above- or below-median in their unit. These findings confirm that people who were informed about the *Bee* website by our treatment e-mail were very likely to use the site to look up the pay of their closest coworkers. We take this as direct evidence that the department is a relevant unit for defining relative pay comparisons.

### B. Effect on Job and Salary Satisfaction and Mobility

We turn now to models of the effect of the information treatment on employee satisfaction. Our surveys asked respondents four questions related to their pay and job satisfaction, and their job search intentions. The first is a simple measure of wage satisfaction: “How satisfied are you with your wage/salary on this job?” Respondents could choose one of four categories: “very satisfied,” “somewhat satisfied,” “not too satisfied,” or “not at all satisfied.” The second is a measure of overall job satisfaction: “All in all, how satisfied are you with your job?” Respondents could choose among the same four categories as for wage satisfaction. The third is a measure of perceived fairness of wage setting: “Do you agree or disagree that your wage is set fairly in relation to others in your department/unit?” Respondents could

<sup>20</sup>The estimated effect of treatment is a little larger at UCSC (33 percent, standard error = 5 percent) than at the other two campuses (UCSD: 28 percent, standard error = 2 percent; UCLA: 28 percent, standard error = 2 percent) but we cannot reject a constant treatment effect ( $p = 0.21$ ). The estimated treatment effect is also somewhat larger for faculty (32 percent, standard error = 3 percent) than for staff (28 percent, standard error = 2 percent), but again we cannot reject a constant effect at conventional significance levels ( $p = 0.23$ ).

choose “strongly agree,” “agree,” “disagree,” or “strongly disagree.” Finally, the last question elicited job search intentions: “Taking everything into consideration, how likely is it you will make a genuine effort to find a new job within the next year?” Respondents could choose “very likely,” “somewhat likely,” or “not at all likely.”

In Appendix Table A3 we report the distributions of responses to these questions among the control and treatment groups of our analysis sample. We also show the distribution of responses for the controls when they are reweighted across the three campuses to be directly comparable to the treatment group. In general, UC employees are relatively happy with their jobs but less satisfied with their wage or salary levels. Despite their professed job satisfaction, just over one-half say they are somewhat likely or very likely to look for a new job next year.

For much of the subsequent analysis we consider three main dependent variables. In order to simplify the presentation of results, and to improve precision, we combine wage satisfaction, job satisfaction, and wage fairness into a single index by taking the simple average of these measures.<sup>21</sup> This variable, which we call the *satisfaction index*, is interpretable as a general measure of work satisfaction. The index has a ten-point scale with higher values indicating the respondent is more satisfied based on the three underlying measures.<sup>22</sup> The second outcome variable is a binary variable that is 1 if the respondent reports being “very likely” to look for a new job.<sup>23</sup> The third outcome is a binary variable for whether the respondent is dissatisfied *and* is looking for a new job.<sup>24</sup>

Tables 4 and 5 present a series of OLS models for these three outcomes.<sup>25</sup> We begin with the basic models in columns 1, 4, and 7 of Table 4 that include only a treatment dummy, a cubic polynomial in the individual’s earnings, and indicators for faculty/staff status fully interacted with campus. The estimated treatment effects from this simple specification are either insignificant or only borderline significant. The point estimate for the effect on the satisfaction index is negative ( $t = 0.9$ ), the point estimate for search intentions is positive ( $t = 0.8$ ), and the point estimate for the combined variable (dissatisfied and likely looking for a new job) is positive and marginally significant ( $t = 1.8$ ). These estimates suggest that our information treatment may have had a small negative average effect on employee satisfaction. The coefficients on the earnings controls (not reported in the table) indicate that higher earnings are associated with higher job and wage satisfaction, and a lower probability of looking for a new job.

We then estimate differential treatment effects for individuals with below-median and above-median earnings. In particular, we fit models of the form

$$(3) \quad S = g(w, x) + a \cdot 1(w \leq m) + b_0 \cdot T \cdot 1(w \leq m) + b_1 \cdot T \cdot 1(w > m) + \mu,$$

<sup>21</sup> We have experimented with different ways of constructing this index, for example taking the first principal component of these variables, and the estimates are not sensitive to these alternatives.

<sup>22</sup> Results of baseline ordered probit models for each of the subcomponents are in Appendix Table A4.

<sup>23</sup> We obtain qualitatively similar results if we use a binary variable for whether the respondent is “likely” or “very likely” to look for a new job.

<sup>24</sup> Specifically, we create a binary variable taking the value of 1 for whether the respondent is dissatisfied (below the median on the satisfaction index) and responds “very likely” to the job search intentions question, and 0 otherwise.

<sup>25</sup> Ordered probit estimates of similar models are in Tables 5 and 6 in Card et al. (2010) and are qualitatively very similar.

TABLE 4—EFFECT OF INFORMATION TREATMENT ON MEASURES OF JOB SATISFACTION

	Satisfaction index (10 point scale)			Reports very likely to look for new job (Yes = 1)			Dissatisfied and likely looking for a new job (Yes = 1)		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Treated individual	-2.0 (2.2)	—	—	1.0 (1.2)	—	—	2.0 (1.1)	—	—
I. Treated individual with earnings ≤ median pay in unit	—	-6.3 (2.9)	—	—	4.3 (1.8)	—	—	5.2 (1.8)	—
II. Treated individual with earnings > median pay in unit	—	2.0 (2.6)	2.2 (2.6)	—	-2.0 (1.6)	-2.0 (1.6)	—	-0.9 (1.3)	-0.9 (1.3)
II-I	—	8.3 (3.5)	—	—	-6.3 (2.4)	—	—	-6.1 (2.1)	—
Treated × earnings in first quartile in pay unit	—	—	-15.0 (4.0)	—	—	8.0 (2.6)	—	—	8.1 (2.4)
Treated × earnings in second quartile in pay unit	—	—	1.9 (3.9)	—	—	0.8 (2.5)	—	—	2.5 (2.3)
<i>p</i> -value for exclusion of treatment effects	0.36	0.05	0.00	0.85	0.03	0.01	0.08	0.01	0.00
Mean of the dependent variable in the control group [standard deviation]		274.2 [66.1]			21.9 [41.4]			12.9 [33.5]	

*Notes:* All models are estimated by OLS. All coefficients and means are multiplied by 100. Standard errors, clustered by campus/department, are in parentheses (818 clusters for all models). “Earnings” refers to total UC payments in 2007. Pay unit refers to the respondent’s department or administrative unit. Median pay is computed separately for faculty and staff. The satisfaction index is the average of responses for the questions: “How satisfied are you with your wage/salary on this job?”; “How satisfied are you with your job?”; and “Do you agree or disagree that your wage is set fairly in relation to others in your department/unit?” Responses to each of these questions are on a 1–4 scale and are ordered so that higher values indicate greater satisfaction. The variable “Dissatisfied and Likely Looking for a New Job” is 1 if the respondent is below the median value of the satisfaction index and reports being “very likely” to make an effort to find a new job. See text and Appendix Table A3 for further details on the construction of the dependent variables. In addition to the explanatory variables presented in the table, all models include controls for campus × (staff/faculty), a cubic in earnings, and main effects. The sample size is 6,411.

where the dependent variable  $S$  is a measure of satisfaction or job search and the regressors include individual earnings  $w$  and other covariates  $x$ , a dummy for whether the individual’s earnings are less than the median in his or her pay unit and occupation, and interactions of a treatment dummy with indicators for whether the individual’s earnings are below or above the median for his or her pay unit and occupation.

The entries in columns 2, 5, and 8 of Table 4 indicate that the small average effect of treatment masks a larger negative impact on satisfaction for below-median earnings, coupled with a zero or very weak positive effect for those with above-median earnings. For workers whose salaries are below the median in their unit and occupation, the point estimate for the satisfaction index is  $-6.3$  ( $t = 2.2$ ), which corresponds to a tenth of a standard deviation shift in the index relative to the control group. Among this group, the information treatment also increases the probability that respondents report being “very likely” to search for a new job by 4.3 percentage points ( $t = 2.4$ ), which represents a 20 percent increase in this measure over the base rate for the controls. Finally, the probability that respondents report being dissatisfied with their job and very likely to search increases by 5.2 percentage points ( $t = 2.9$ ), which corresponds to a 40 percent increase over the rate for the controls.

Since the “first stage” effect of our information treatment on use of the *Sacramento Bee* website is on the order of  $+0.28$  (see Table 3), a standard two-stage least squares procedure would blow up the “intention to treat” effects in Table 4 by a factor of  $3.6$  ( $= \frac{1}{0.28}$ ) to obtain estimates of the “treatment on the treated” effect.



TABLE 5—EFFECT OF INFORMATION TREATMENT ON MEASURES OF JOB SATISFACTION:  
EARNINGS DIFFERENCES VERSUS RANK

	Satisfaction index (10 point scale)			Reports very likely to look for new job (Yes = 1)			Dissatisfied and likely looking for a new job (Yes = 1)		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Treated individual $\times$ deviation of earnings from median if deviation negative (coefficient $\times$ 100)	1.7 (0.9)	—	-0.8 (1.5)	-1.4 (0.5)	—	-0.1 (0.9)	-1.3 (0.5)	—	0.2 (0.8)
Treated individual $\times$ deviation of earnings from median if deviation positive (coefficient $\times$ 100)	-0.5 (0.6)	—	-0.8 (0.9)	-0.5 (0.3)	—	-0.5 (0.4)	-0.2 (0.2)	—	-0.1 (0.3)
Treated individual $\times$ deviation of rank from 0.5 if deviation negative (coefficient $\times$ 10)	—	2.4 (1.0)	3.3 (1.8)	—	-1.9 (0.7)	-1.7 (1.1)	—	-1.8 (0.6)	-2.0 (1.0)
Treated individual $\times$ deviation of rank from 0.5 if deviation positive (coefficient $\times$ 10)	—	-0.3 (0.9)	0.8 (1.5)	—	-0.8 (0.5)	-0.1 (0.8)	—	-0.4 (0.4)	-0.2 (0.7)
Controls for campus $\times$ (staff/faculty) and cubic in earnings?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<i>p</i> -value for exclusion of treatment effects	0.12	0.06	0.07	0.01	0.01	0.03	0.02	0.01	0.03

*Notes:* All models are estimated by OLS. Standard errors, clustered by campus/department, are in parentheses (818 clusters for all models). “Earnings” refers to total UC payments in 2007. Pay unit refers to faculty or staff members in an individual’s department. See note to Table 4 for description of the dependent variables. In addition to the explanatory variables presented in this table, specifications 1, 3, 4, 6, 7, and 9 include the deviation of earnings from the median earnings in the pay unit if the deviation is positive, the deviation of earnings from the median earnings in the pay unit if the deviation is negative, and an indicator for whether the deviation is negative. Deviation of earnings from median are expressed in \$10,000s. Specifications 2, 3, 5, 6, 8, and 9 include the deviation of the rank in the pay unit from 0.5 if the deviation is positive, the deviation of the rank in the pay unit from 0.5 if the deviation is negative, and an indicator for whether the deviation is negative. The sample size is 6,411.

As is well known, if there is heterogeneity in the response to relative pay information, the treatment on the treated effect may differ from the average treatment effect on the entire population of interest. In our context, it seems plausible that people who cared more about relative pay would be more likely to comply with the treatment (i.e., use the website), implying that the treatment on the treated effect is an upper bound on the average treatment effect for all employees. On the other hand, a lower bound on the average treatment effect is provided by the intention to treat effects, which effectively assign a zero treatment effect for the noncompliers. Even the lower bound effects implied by the estimates in Table 4 are relatively large.

While we obtain significant negative effects for workers earning less than the unit  $\times$  occupation median, the treatment effect for workers earning more than the median is insignificant in all cases. The entries in the fourth row of Table 4 show the difference in the estimated treatment effects for above- and below-median workers. These are statistically significant for all three outcomes at the 5 percent level.<sup>26</sup> Overall, the negative impact of information on below-median workers, coupled with the absence of any positive effect for above-median workers, is consistent with inequality aversion in the relative wage concern function.

<sup>26</sup>To probe the robustness of our inferences to potential selection biases, we fitted selection-correction models where we take advantage of random assignment of the prize incentive that we introduced to raise response rates, as well as the random assignment of the placebo, which reduces response rates. See Card et al. (2010) for these estimates and associated discussion. We come back to the issue of selection in Section IIIC below.

The choice of the median to distinguish high and low relative wages is of course arbitrary. The models in columns 3, 6, and 9, break out the treatment effect for workers in the lower half of the pay distribution into separate effects for workers in the two lowest quartiles. The results suggest that the largest information effects occur for workers in the first quartile, while the effects for people in the second quartile and the upper half are uniformly small in magnitude and insignificant. We infer that our main results are largely driven by impacts on relatively low-paid employees in each unit.

We have also estimated models allowing the treatment effects to vary by gender, faculty/staff status, and length of tenure, shown in online Appendix Table A5. We find that the treatment effect on search intentions is concentrated among low-paid and low-tenure respondents.<sup>27</sup> Staff appear to be more responsive than faculty to the treatment on both satisfaction and job search, but the relatively small number of faculty limits our ability to make precise comparisons. Although both men and women express the same elevated dissatisfaction following the information treatment, women appear more inclined to report that they are searching for a new job following treatment. This finding may be related to the general differences in bargaining attitudes between men and women noted by Babcock and Laschever (2003). Specifically, women may be more likely to leave their job than to ask for a raise in response to learning that they are underpaid, though without additional data our findings are only suggestive.<sup>28</sup> As a caveat to online Appendix Table A5, it should be noted that treatment intensity varies somewhat across subgroups. Inflating the estimates by the “first-stage” effects of the information treatment, however, results in a very similar pattern of estimates across subgroups to those presented in online Appendix Table A5.

We have also explored models in which we use employees at the entire campus (instead of the department) as the peer unit, keeping the distinction between staff and faculty. The results are presented in online Appendix Table A7. Using campus-wide median pay as the reference point, we find a relatively large negative effect of our information treatment on the satisfaction of faculty with below-median pay, and a significantly positive effect for faculty with above-median pay. On the other hand, the treatment effects on job-search intentions of faculty are still asymmetric, with positive effects for lower-paid faculty and negligible effects for higher-paid faculty. For staff, the use of a campus-wide reference point leads to noticeably smaller negative treatment effects for lower-paid workers than when we define the reference point at the department level. This suggests that departmental colleagues may be a better comparison group for staff, whereas for faculty a broader comparison group may be relevant.

To test the inequality aversion hypothesis more directly, the models in Table 5 adopt a treatment effect specification that depends on a piecewise linear function of

<sup>27</sup> The latter is not surprising as very few UC employees with long tenure change jobs. We use this feature to test that responses to job search are truthful (and not cheap talk due to wage dissatisfaction). In online Appendix Table A6 we show that treatment effects on job search are present only in the group of more mobile workers as predicted by age, tenure, time in position, gender, faculty/staff status, and campus (estimated from the control group).

<sup>28</sup> In a separate analysis (not reported in this paper) we rule out that the probability of leaving one's job conditional on the job search response differs between women and men. Specifically, the relationship between the job search response and being listed in the campus directory in March 2011 is similar for women and men. The baseline probability of still being listed in the campus directory by March 2011 conditional on appearing in our sample is also very close between women and men.

the gap between an individual's earnings and the reference earnings (again defined as median earnings by department  $\times$  (faculty/staff):

$$(4) \quad S = g(w, x) + c_1 \cdot T \cdot (w - m) \cdot 1(w \leq m) \\ + c_2 \cdot T \cdot (w - m) \cdot 1(w > m) + \mu.$$

Note that we interact the treatment dummy  $T$  with the wage gap ( $w - m$ ), allowing potentially different effects when the individual's earnings are below ( $c_1$ ) or above ( $c_2$ ) the reference point wage. Consistent with the findings in Table 4, these models suggest a pattern of treatment effect for all outcomes that is concentrated among the lowest-wage individuals. The estimates in columns 1, 4, and 7 confirm the non-linearity in the relationship between the treatment effect and the wage gap, with a relatively large negative estimate for the coefficient  $c_1$  and small and insignificant estimates for the coefficient  $c_2$ . Thus, the distance between one's own wage and the reference wage matters when  $w \leq m$ , but once the wage exceeds the reference wage the effect of treatment is constant. Across all models reported in Table 5 we cannot reject that the treatment response function is zero when the wage exceeds the pay unit median.

In the remaining columns of Table 5 we explore whether the effect of the information treatment varies with wage rank, rather than with relative wage level. The motivation for this specification is the possibility that ordinal rank matters more for relative utility considerations than absolute salary differences, as has been suggested in the psychology literature (e.g., Parducci 1995). In columns 2, 5, and 8 we replace the gap variable based on pay levels with the gap in percentile ranks (normalized so that median rank is 0). For the first and third outcomes, the interaction based on rank shows a more pronounced effect than the interaction based on relative salary levels, while for the intended search the two alternatives are very similar. When we estimate models that include both rank and levels (columns 3, 6, and 9), rank wins the "horse race" for all three outcomes. Specifically, in the combined model the interaction of treatment with rank is significant for the below-median workers while the interaction with the relative wage gap is no longer significant.<sup>29</sup>

Overall, we believe that the weight of the evidence in Tables 4 and 5 supports a relative income model of the responses to the information treatment. We note, however, two caveats that preclude a definitive conclusion. First, we do not directly measure the change in the discounted expected utility (EU) that individuals experience when they are exposed to the information in the *Sacramento Bee* website. It is possible that learning about coworkers' salaries raises EU for low-paid workers—as predicted by a rational updating model—and at the same time lowers reported job and pay satisfaction, and increases willingness to look for a new job. This possibility makes it difficult to definitely reject the hypothesis of rational updating. Second, we cannot completely rule out that more highly paid employees in a unit have better information on coworker wages. While we have shown above that the effects of the information treatment on the observed website use of above-median

<sup>29</sup> Models where we have added a treatment main-effect (not reported in the table) also show that the rank variable appears to be more significant in the treatment response than relative wage levels.

and below-median workers are virtually identical, it is still possible that the new information was less important for the high-wage group.

### *C. Effects of the Placebo Treatment*

While our randomized research design provides a strong basis for inferences about the effects of an information treatment, there may be a concern that our interpretation of the measured treatment effects is flawed. For example, it is conceivable that receiving the first-stage e-mail about research on inequality at UC campuses could have reduced job satisfaction of relatively low-paid employees, independent of the information they obtained from the *Sacramento Bee*. Such effects are known in the psychology literature as “priming effects.” This concern is potentially serious because we used the words “pay inequality” in our cover e-mail to participants. Another issue of concern is the lower response rate in the treatment group, which may introduce differential selection biases in the measured responses of the treatment and control groups.

One way to address these concerns is to fit similar models to those in Table 4, using the placebo treatment instead of our real information treatment. The wording of the placebo treatment e-mail closely followed the wording of our main information treatment:

*We are Professors of Economics at Princeton University and Cal Berkeley conducting a research project on pay inequality and job satisfaction at the University of California. The University of California, Office of the President (UCOP) has launched a website listing the individual salaries of all the top administrators on the UC campuses. The listing is posted at [...]. As part of our research project, we wanted to ask you: Did you know that UCOP had posted this top management pay information online?*

Note that the experimentally measured effect of the placebo treatment is subject to the same set of potential biases as the effect of the real treatment. Specifically, because the placebo treatment contained the same wording in the cover e-mail, it presumably had a similar priming effect as the real treatment. Moreover, because the placebo treatment reduced the response rate to our survey by the same magnitude as the real treatment, we should observe a similar degree of selection bias in the measured responses of the treatment and control groups in the placebo experiment.<sup>30</sup>

The placebo treatment was only administered at UCLA (see Appendix Table A0). To analyze the effects of the placebo treatment, we use all observations of individuals who were not assigned to the information treatment at the UCLA campus (i.e., the UCLA “control group”), distinguishing within this subsample of 1,880 people between those who were assigned the placebo treatment ( $N = 503$ ) and those who were not ( $N = 1,377$ ). As a first step, we fit various models similar to the ones in

<sup>30</sup>One concern is that the placebo is providing new and relevant information in units that house top administrators. In Appendix Table A8 we estimate the placebo effect excluding departments or administrative units that house deans, associate deans, or provosts. The resulting estimates appear close to those that include these units and excluding them do not alter the conclusions from the analysis below.

TABLE 6—ESTIMATES OF THE EFFECT OF “PLACEBO” TREATMENT

	Satisfaction index (10 point scale)			Reports very likely to look for new job (Yes = 1)			Dissatisfied and likely looking for a new job (Yes = 1)		
	Treatment (1)	Placebo (2)	<i>p</i> -value <sup>a</sup> (3)	Treatment (4)	Placebo (5)	<i>p</i> -value <sup>a</sup> (6)	Treatment (7)	Placebo (8)	<i>p</i> -value <sup>a</sup> (9)
Treated individual with earnings less than median in pay unit	-8.6 (4.6)	1.7 (4.5)	0.04	4.7 (2.8)	-3.3 (3.7)	0.06	7.8 (2.6)	-4.0 (3.2)	0.00
Treated individual with earnings more than median in pay unit	-1.5 (3.8)	-1.4 (3.7)	0.98	-3.3 (2.5)	-1.9 (2.9)	0.63	-1.3 (1.8)	1.4 (2.1)	0.22
Controls for staff/faculty status and cubic in wage?	Yes	Yes		Yes	Yes		Yes	Yes	
Observations	2,303	1,880		2,303	1,880		2,303	1,880	

Notes: All models are estimated by OLS. All coefficients are multiplied by 100. Standard errors, clustered by campus/department, are in parentheses. “Treatment” in the columns denotes the information treatment. “Placebo” denotes the placebo treatment. Sample is for UCLA only. Treatment specifications exclude the placebo group. Placebo specifications exclude the treatment group. Standard errors, clustered by campus/department, are in parentheses. “Earnings” refers to total UC payments in 2007. Pay unit refers to faculty or staff members in an individual’s department. Models are based on specifications 2, 5, and 8 of Table 4. For additional details see notes to Table 4 and text.

<sup>a</sup>*p*-value for hypothesis that placebo and treatment effects are equal.

Table 3 and found no indication that the placebo treatment had any effect on use of the *Sacramento Bee* site.

In Table 6 we compare the effects of the placebo treatment to the effects of our main information treatment for each of our three outcome measures. Columns 1, 4, and 7 show baseline models for the effect of our main information treatment on people above or below the median earnings in the their pay unit, fit only to the UCLA sample and excluding observations assigned to the placebo treatment. The pattern of estimates is very similar to the pattern in Table 4 (estimated on all three campuses) though somewhat less precise because of the smaller sample. As in the overall sample, low-earning employees who were informed of the *Sacramento Bee* database have lower satisfaction, are more likely to report that they are searching for a job, and are more likely to be dissatisfied and searching for a job relative to the control group. Columns 2, 5, and 8 show parallel models defining “treatment” as our placebo e-mail treatment. In these specifications the impact on low-wage employees is uniformly small and insignificant. In the third column, we show *p*-values corresponding to the test that the parameters from the information treatment model are equal to the placebo model. For the three outcomes, we can reject the hypothesis that the interaction of treatment with below-median in pay unit is equal to the interaction of placebo and below-median in pay unit at or below the 6 percent level. These results show that the systematic pattern of estimates in Table 4 is not an artifact of priming effects or selection biases arising from our earlier e-mail contact of the treatment group. Hence, they provide additional support for our interpretation of these estimates as relative pay effects.

#### D. Effects on Actual Turnover in the Medium Run

One limitation of our study is that our survey information is limited to self-reported outcomes, raising the question as to whether the effects of the information treatment

TABLE 7—EFFECT OF INFORMATION TREATMENT ON JOB MOBILITY

	Survey respondents only	All employees who could be matched to earnings data			
	(1)	(2)	(3)	(4)	(5)
Reported “very likely” to make a genuine effort to find a new job (coefficient $\times$ 100)	19.5 (1.62)	—	—	—	—
Reported “somewhat likely” to make a genuine effort to find a new job (coefficient $\times$ 100)	4.96 (1.20)	—	—	—	—
Treated individual with earnings $>$ median pay in unit (coefficient $\times$ 100)	—	1.42 (1.29)	0.84 (0.93)	—	—
Treated $\times$ earnings in first quartile in pay unit (coefficient $\times$ 100)	—	2.61 (1.78)	2.30 (1.32)	—	—
Treated $\times$ earnings in second quartile in pay unit (coefficient $\times$ 100)	—	-0.39 (1.64)	-0.71 (1.19)	—	—
Treated individual $\times$ deviation of rank from 0.5 if deviation negative (coefficient $\times$ 10)	—	—	—	-0.74 (0.51)	-0.63 (0.36)
Treated individual $\times$ deviation of rank from 0.5 if deviation positive (coefficient $\times$ 10)	—	—	—	0.43 (0.39)	0.27 (0.31)
Controls for campus $\times$ (staff/faculty) and cubic in earnings?	Yes	Yes	Yes	Yes	Yes
Department fixed-effects	No	No	Yes	No	Yes
Observations	6,599	31,882	31,882	31,882	31,882

*Notes:* All models are estimated by OLS. Dependent variable is 1 if we were not able to locate an individual in online campus directories in August 2011, and 0 otherwise. (Overall mean of dependent variable is 0.31.) Sample in columns 2–5 includes all individuals in employee subsample matched to earnings data. We found 49 percent of original sample in UCSC, 76 percent in UCSD, and 74.5 percent in UCLA. Sample in column 1 only is restricted to individuals who responded to our survey with valid response for search intentions question. Excluded category in column 1 is “not likely at all.” In addition to the explanatory variables presented in the table, models in columns 2–5 include an indicator for whether the respondent is paid at least the median in his/her pay unit. Columns 4 and 5 include the deviation of the rank in the pay unit from 0.5 if the deviation is positive and negative.

translated into changes in observable economic behavior. To address this limitation, we gathered the online directories for the three campuses as of August 2011, some 27–35 months after our initial treatment and survey e-mails. We then defined a turnover indicator, based on whether a given individual’s e-mail name is still present at the campus.<sup>31</sup> Table 7 presents a series of models using this indicator of turnover as a dependent variable. As a starting point, the model in column 1 relates the turnover event to our survey-based measure of job search intentions. Reassuringly, the estimates show that stated search intentions are a very strong predictor of actual turnover. Among the subset of respondents to our survey, those who reported being very likely to search for new job have 19.5 percentage points higher turnover, while those who said they were somewhat likely to search have 5 percentage points higher turnover.

Columns 2–5 examine the effects of the information treatment on turnover for the full sample of people we were able to match to 2007 salary data, regardless of whether they responded to our survey or not. Given the findings in Tables 4 and 5 we present two specifications: one in which we divide people into the upper half and the bottom two quartiles of the pay distribution in their unit (columns 2–3), and an alternative in which we use the deviation of salary rank from the median in the pay unit (columns 4–5). In an effort to improve the precision of the estimates, the models in columns 3 and 5 introduce a set of departmental fixed effects in addition to controls

<sup>31</sup> Overall, 27 percent of the names that we were able to match with base salary data were no longer present in August 2011, implying an annual turnover rate of about 10 percent.



for the individual's earnings and occupation group  $\times$  campus. Turnover rates vary widely by department so the addition of these variables leads to a notable reduction in the standard errors for the estimated treatment effects.

The estimates in columns 2 and 3 show large but imprecise positive effects of the information treatment on turnover rates of people in the bottom quartile of salaries: the estimated treatment effect for the lowest quartile in column 3 implies a 2.3 percentage point increase in the probability of quitting (relative to the average rate of 31 percent) with  $t = 1.74$ . A similar pattern of effects is revealed from the estimates in columns 4–5, which show a negative but only marginally significant effect of higher salary rank on the probability of turnover among workers in the lower half of the earnings distribution, and relatively smaller effects on people in the upper half. Overall, we infer that the information treatment may have led to an increase in turnover of lower-ranked workers, consistent with the increases in their stated search intentions and increased job dissatisfaction, but the estimates are too imprecise to reach a definite conclusion.

It is worth noting two issues that may confound the interpretation of the turnover treatment effects in Table 7. First, information about the *Sacramento Bee* website (and other sites with salary information about UC employees) has been diffusing over time, presumably narrowing the information gap between our treatment and control groups, and diluting our experimental design. Second, because of the severe recession and high unemployment in California in the period from 2007 to 2011, workers who were unsatisfied with their relative salary may have been unable to find other jobs. We suspect both factors would lead to smaller measured effects in Table 7 than would arise in other contexts. Given these concerns, and the imprecision of the estimates, we believe these results are at best only suggestive of the longer-run economic effects of salary disclosure.<sup>32</sup>

#### IV. Conclusion

In this paper we manipulate access to information on coworker pay to test how knowledge of one's position in the pay distribution of immediate coworkers affects satisfaction and job search intentions. We find that the information treatment has a negative effect on workers paid below the median for their unit and occupation—particularly for those in the lowest pay quartile—but has no effect on workers paid above median. The evidence further suggests that the effect of the treatment is more closely related to pay rank than to the actual level of pay relative to the median in the pay unit.

These patterns are consistent with a utility function that imposes a negative cost for having wages below the reference point, but little or no reward for having wages above the reference point. Overall, our results support the conclusions of many

<sup>32</sup>We also collected the salary data released by the UC administration in August 2011, which report 2010 salaries. We estimated models intended to test the hypothesis that our information treatment affects either salaries or different components of salaries (base pay versus overtime). In particular, we tested whether treated workers who learn to be paid below their peers experience different salary changes. In general, our models failed to uncover significant differences—a finding that is probably to be expected in a serious recession like the current one—with one exception. We found that treated workers with above-median earnings tend to be significantly less likely to receive overtime pay. Reassuringly, this effect appears to be concentrated among nonresponders (as responders in the control learned about the website in the survey). We report these estimates in Appendix Table A9.

previous observational studies and lab-based experimental studies on relative income and worker satisfaction. We also find suggestive evidence that the information treatment increased the two- to three-year turnover rate of lower-ranked employees, though our experimental design has been diluted by the diffusion of information about the website over time. Finding experimental research designs to estimate the longer-term effects of pay disclosure is an important topic for future research.

In terms of workplace policies, our findings indicate that employers have a strong incentive to impose pay secrecy rules. In the short run, the disclosure of salary information results in a decline in job and pay satisfaction, concentrated among the lowest-earning workers. In the longer run, it is possible that making information on salaries available may lead to endogenous changes in wage-setting policies and employee composition that ultimately affect the distribution of wages, as in the models of Frank (1984), Bewley (1999), and Bartling and von Siemens (2010).

## REFERENCES

- Akerlof, George A., and Janet L. Yellen. 1990. "The Fair Wage-Effort Hypothesis and Unemployment." *Quarterly Journal of Economics* 105 (2): 255–83.
- Babcock, Linda, and Sara Laschever. 2003. *Women Don't Ask: Negotiation and the Gender Divide*. Princeton, NJ: Princeton University Press.
- Bartling, Bjorn, and Ferdinand A. von Siemens. 2010. "The Intensity of Incentives in Firms and Markets: Moral Hazard with Envious Agents." *Labour Economics* 17 (3): 598–607.
- Bartling, Bjorn, and Ferdinand A. von Siemens. 2011. "Wage Inequality and Team Production: An Experimental Analysis." *Journal of Economic Psychology* 32 (1): 1–16.
- Bewley, Truman F. 1999. *Why Wages Don't Fall During a Recession*. Cambridge, MA: Harvard University Press.
- Brown, Gordon D. A., Jonathan Gardner, Andrew J. Oswald, and Jing Qian. 2008. "Does Wage Rank Affect Employees' Well-Being?" *Industrial Relations* 47 (3): 355–89.
- Card, David, Alexandre Mas, Enrico Moretti, and Emmanuel Saez. 2010. "Inequality at Work: The Effect of Peer Salaries on Job Satisfaction." National Bureau of Economic Research Working Paper 16396.
- Card, David, Alexandre Mas, Enrico Moretti, and Emmanuel Saez. 2012. "Inequality at Work: The Effect of Peer Salaries on Job Satisfaction: Dataset." *American Economic Review*. <http://dx.doi.org/10.1257/aer.102.6.2981>.
- Charness, Gary, and Peter Kuhn. 2007. "Does Pay Inequality Affect Worker Effort? Experimental Evidence." *Journal of Labor Economics* 25 (4): 693–723.
- Charness, Gary, and Matthew Rabin. 2002. "Understanding Social Preferences with Simple Tests." *Quarterly Journal of Economics* 117 (3): 817–69.
- Chetty, Raj, and Emmanuel Saez. 2009. "Teaching the Tax Code: Earnings Responses to an Experiment with EITC Recipients." National Bureau of Economic Research Working Paper 14836.
- Chetty, Raj, Adam Looney, and Kory Kroft. 2009. "Salience and Taxation: Theory and Evidence." *American Economic Review* 99 (4): 1145–77.
- Clark, Andrew E., and Andrew J. Oswald. 1996. "Satisfaction and Comparison Income." *Journal of Public Economics* 61 (3): 359–81.
- Clark, Andrew E., David Masclet, and Marie Claire Villeval. 2010. "Effort and Comparison Income: Experimental and Survey Evidence." *Industrial and Labor Relations Review* 63 (3): 407–26.
- Danziger, Leif, and Eliakim Katz. 1997. "Wage Secrecy as a Social Convention." *Economic Inquiry* 35 (1): 59–69.
- Duesenberry, James S. 1949. *Income, Saving and the Theory of Consumer Behavior*. Cambridge, MA: Harvard University Press.
- Easterlin, Richard A. 1974. "Does Economic Growth Improve the Human Lot? Some Empirical Evidence?" In *Nations and Households in Economic Growth: Essays in Honor of Moses Abramowitz*, edited by Paul A. David and Melvin W. Reder, 15–35. New York: Academic Press.
- Fehr, Ernst, and Armin Falk. 1999. "Wage Rigidity in a Competitive Incomplete Contract Market." *Journal of Political Economy* 107 (1): 106–34.
- Fehr, Ernst, and Klaus M. Schmidt. 1999. "A Theory of Fairness, Competition, and Cooperation." *Quarterly Journal of Economics* 114 (3): 817–68.

- Fliessbach, K., B. Weber, P. Trautner, T. Dohmen, U. Sunde, C. Elger, and A. Falk.** 2007. "Social Comparison Affects Reward-Related Brain Activity in the Human Ventral Striatum." *Science* 318 (5854): 1305–08.
- Frank, Robert H.** 1984. "Are Workers Paid Their Marginal Products?" *American Economic Review* 74 (4): 549–71.
- Frey, Bruno S., and Alois Stutzer.** 2002. "What Can Economists Learn from Happiness Research?" *Journal of Economic Literature* 40 (2): 402–35.
- Futrell, Charles M.** 1978. "Effects of Pay Disclosure on Pay Satisfaction for Sales Managers: A Longitudinal Study." *Academy of Management Journal* 21 (1): 140–44.
- Hamermesh, Daniel S.** 1975. "Interdependence in the Labour Market." *Economica* 42 (168): 420–29.
- Hamermesh, Daniel S.** 2001. "The Changing Distribution of Job Satisfaction." *Journal of Human Resources* 36 (1): 1–30.
- Hastings, Justine S., and Jeffrey M. Weinstein.** 2008. "Information, School Choice, and Academic Achievement: Evidence from Two Experiments." *Quarterly Journal of Economics* 123 (4): 1373–414.
- Jensen, Robert.** 2010. "The (Perceived) Returns to Education and the Demand for Schooling." *Quarterly Journal of Economics* 125 (2): 515–48.
- Kling, Jeffrey, Sendhil Mullainathan, Eldar Shafir, Lee Vermeulen, and Marian V. Wrobel.** 2012. "Comparison Friction: Experimental Evidence from Medicare Drug Plans." *Quarterly Journal of Economics* 127 (1): 199–235.
- Kuhn, Peter, Peter Kooreman, Adriaan Soetevent, and Arie Kapteyn.** 2011. "The Effects of Lottery Prizes on Winners and Their Neighbors: Evidence from the Dutch Postcode Lottery." *American Economic Review* 101 (5): 2226–47.
- Kuziemko, Ilyana, Ryan W. Buell, Taly Reich, and Michael I. Norton.** 2011. "'Last-Place Aversion': Evidence and Redistributive Implications." National Bureau of Economic Research Working Paper 17234.
- Kwon, Illoong, and Eva Meyersson Milgrom.** 2008. "Status in the Workplace: Evidence from M&A." Unpublished.
- Lawler, Edward E.** 1965. "Managers' Perceptions of Their Subordinates' Pay and of Their Superiors' Pay." *Personnel Psychology* 18 (4): 413–22.
- Luttmer, Erzo F. P.** 2005. "Neighbors as Negatives: Relative Earnings and Well-Being." *Quarterly Journal of Economics* 120 (3): 963–1002.
- Manning, Michael R., and Bruce J. Avolio.** 1985. "The Impact of Blatant Pay Disclosure in a University Environment." *Research in Higher Education* 23 (2): 135–49.
- Marmot, Michael.** 2004. *The Status Syndrome: How Social Standing Affects Our Health and Longevity*. New York: Times Books.
- Parducci, Allen.** 1995. *Happiness, Pleasure, and Judgment: The Contextual Theory and its Applications*. Mahwah, NJ: Erlbaum.
- Rabin, Matthew.** 1998. "Psychology and Economics." *Journal of Economic Literature* 36 (1): 11–46.
- Sacramento Bee.** 2012. "Salary of California Public Employees." [www.sacbee.com/statepay](http://www.sacbee.com/statepay).
- Solnick, Sara J., and David Hemenway.** 1998. "Is More Always Better?: A Survey on Positional Concerns." *Journal of Economic Behavior and Organization* 37 (3): 373–83.
- Stevenson, Betsey, and Justin Wolfers.** 2008. "Economic Growth and Subjective Well-Being: Reassessing the Easterlin Paradox." *Brookings Papers on Economic Activity*: 1–87.
- Veblen, Thorstein.** 1899. *The Theory of the Leisure Class*. New York: Macmillan Company.

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2. Srikant Devaraj, Pankaj C. Patel. 2022. State bans on pay secrecy and earnings: Evidence from the National Longitudinal Survey of Youth 1997. *British Journal of Industrial Relations* **60**:4, 697-734. [[Crossref](#)]
3. Burak Kağan Demirtaş. 2022. Spillover effects of the minimum wage introduction based on horizontal fairness: A lab experiment. *Managerial and Decision Economics* **43**:8, 3370-3385. [[Crossref](#)]
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6. Suresh P. Sethi, Sushil Gupta, Vipin K. Agrawal, Vijay K. Agrawal. 2022. Nobel laureates' contributions to and impacts on operations management. *Production and Operations Management* **53**. . [[Crossref](#)]
7. Jirs Meuris, Allison Elias. 2022. Task interdependence and the gender wage gap: The role of the gender composition of an occupation. *Journal of Organizational Behavior* **5**. . [[Crossref](#)]
8. James Monks. 2022. Public versus private business school deans' salary levels and structure in the United States. *Education Economics* **21**, 1-15. [[Crossref](#)]
9. Ingolf Dittmann, Maurizio Montone, Yuhao Zhu. 2022. Wage gap and stock returns: Do investors dislike pay inequality?. *Journal of Corporate Finance* **67**, 102322. [[Crossref](#)]
10. Teng Li, Runjing Lu. 2022. Social undermining as a dark side of symbolic awards: Evidence from a regression discontinuity design. *Organizational Behavior and Human Decision Processes* **173**, 104184. [[Crossref](#)]
11. Laszlo Goerke, Sven A Hartmann. 2022. Habit formation and trade unions. *Oxford Economic Papers* **80**. . [[Crossref](#)]
12. Matthew J. Aplin-Houtz, Mark Sanders, Emily K. Lane. 2022. A Policy of Potential Problems: the Buffering Effects of the Perceptions of Pay Secrecy and Cynicism on Workplace Ostracism. *Employee Responsibilities and Rights Journal* **67**. . [[Crossref](#)]
13. Sabrina T Howell, J David Brown. 2022. Do Cash Windfalls Affect Wages? Evidence from R&D Grants to Small Firms. *The Review of Financial Studies* **67**. . [[Crossref](#)]
14. Shahid Ali, Junfeng Jiang, Ramiz ur Rehman, Muhammad Kaleem Khan. 2022. Tournament incentives and environmental performance: the role of green innovation. *Environmental Science and Pollution Research* **32**. . [[Crossref](#)]
15. James Flynn. 2022. Salary disclosure and individual effort: Evidence from the National Hockey League. *Journal of Economic Behavior & Organization* **202**, 471-497. [[Crossref](#)]
16. Rebecca Cannon Fraenkel. 2022. Local labor markets and job match quality: Teachers. *Labour Economics* **78**, 102240. [[Crossref](#)]
17. Philipp Ager, Leonardo Bursztyn, Lukas Leucht, Hans-Joachim Voth. 2022. Killer Incentives: Rivalry, Performance and Risk-Taking among German Fighter Pilots, 1939-45. *The Review of Economic Studies* **89**:5, 2257-2292. [[Crossref](#)]

18. Min Song, Yuxin Ji, Mingdi Zhu, Junji Yue, Luping Yi. 2022. Routes Determine Results? Comparing the Performance of Differentiated Farmland Conservation Policies in China Based on Farmers' Perceptions. *Agriculture* 12:9, 1442. [[Crossref](#)]
19. WONJAE CHANG, MICHAEL DAMBRA, BRYCE SCHONBERGER, INHO SUK. 2022. Does Sensationalism Affect Executive Compensation? Evidence from Pay Ratio Disclosure Reform. *Journal of Accounting Research* 1. . [[Crossref](#)]
20. Rongzi Ma, Chenyan Yu, Xiaomin Sun, Nan Zhang, Mengxi Dong, Xinying Jiang. 2022. Different effects of vertical and horizontal pay dispersion on employees' job performance: the underlying mechanism of social comparison emotions. *Current Psychology* 67. . [[Crossref](#)]
21. Simon Jäger, Benjamin Schoefer, Josef Zweimüller. 2022. Marginal Jobs and Job Surplus: A Test of the Efficiency of Separations. *The Review of Economic Studies* 92. . [[Crossref](#)]
22. Marcelo Bérigolo, Gabriel Burdin, Santiago Burone, Mauricio De Rosa, Matias Giacobasso, Martin Leites. 2022. Dissecting inequality-averse preferences. *Journal of Economic Behavior & Organization* 200, 782-802. [[Crossref](#)]
23. C. Simon Fan, Xiangdong Wei, Jia Wu, Junsen Zhang. 2022. Observability and peer effects: Theory and evidence from a field experiment. *Journal of Economic Behavior & Organization* 200, 847-867. [[Crossref](#)]
24. MORTEN BENNEDSEN, ELENA SIMINTZI, MARGARITA TSOUTSOURA, DANIEL WOLFENZON. 2022. Do Firms Respond to Gender Pay Gap Transparency?. *The Journal of Finance* 77:4, 2051-2091. [[Crossref](#)]
25. Xi Wang, Songnian Chen. 2022. Partial Identification and Estimation of Semiparametric Ordered Response Models with Interval Regressor Data\*. *Oxford Bulletin of Economics and Statistics* 84:4, 830-849. [[Crossref](#)]
26. Matthias Pohlig, Sabine Israel, Irene Dingeldey. 2022. Does the household context matter for job satisfaction among low-wage workers?. *Economic and Industrial Democracy* 43:3, 1028-1058. [[Crossref](#)]
27. Jan Christian Bauer, Michael Wolff. 2022. The Deinstitutionalization of Business Support Functions through Artificial Intelligence. *Information* 13:8, 352. [[Crossref](#)]
28. Rodrigo Montero, René Gempp, Miguel Vargas. 2022. Chilean University Students' Satisfaction With Online Learning During COVID-19 Pandemic: Demonstrating the Two-Layer Methodology. *Frontiers in Psychology* 13. . [[Crossref](#)]
29. Maimouna Gaye. 2022. Job satisfaction: towards internalizing the feeling of inequality between men and women. *Applied Economics* 54:33, 3823-3839. [[Crossref](#)]
30. Lukas Kiessling, Jonathan Norris. 2022. The Long-Run Effects of Peers on Mental Health. *The Economic Journal* 127. . [[Crossref](#)]
31. Adrian Chadi, Konstantin Homolka. 2022. Little Lies and Blind Eyes – Experimental Evidence on Cheating and Task Performance in Work Groups. *Journal of Economic Behavior & Organization* 199, 122-159. [[Crossref](#)]
32. Michelle Brown, Anthony J. Nyberg, Ingo Weller, Sam D. Strizver. 2022. Pay Information Disclosure: Review and Recommendations for Research Spanning the Pay Secrecy–Pay Transparency Continuum. *Journal of Management* 48:6, 1661-1694. [[Crossref](#)]
33. Omesh Kini, Mo Shen, Jaideep Shenoy, Venkat Subramaniam. 2022. Labor Unions and Product Quality Failures. *Management Science* 68:7, 5403-5440. [[Crossref](#)]
34. Klaudia Blachnicka. 2022. Objectivity in evaluating professional career development. *e-mentor* 94:2, 48-54. [[Crossref](#)]



35. Dominique Demougin, Harvey Upton. 2022. Relative Income Concerns, Dismissal, and the Use of Pay-for-Performance. *The B.E. Journal of Theoretical Economics*, ahead of print. [[Crossref](#)]
36. Jens Mohrenweiser, Christian Pfeifer. 2022. Reference wages and turnover intentions: evidence from linked employer-employee data. *Applied Economics Letters* 4, 1-5. [[Crossref](#)]
37. Molly Merrill-Francis, Jon S. Vernick, Emma E. McGinty, Keshia M. Pollack Porter. 2022. Association Between Fatal Occupational Injuries and State Minimum-Wage Laws, 2003–2017. *American Journal of Preventive Medicine* 62:6, 878-884. [[Crossref](#)]
38. Jean-Marc Bédhat Atsebi, Ada Ferrer-i-Carbonell. 2022. Relative deprivation in Tanzania: Relative concerns and empathy. *Journal of Economic Behavior & Organization* 198, 389-408. [[Crossref](#)]
39. Timo Heinrich, Bindu Arya, Alexander Haering, Sven Horak. 2022. Costly information acquisition: The influence of stakeholder earnings. *Journal of Economic Psychology* 90, 102504. [[Crossref](#)]
40. Patrick J. Ferguson, Matthew Pinnuck. 2022. Superstar Productivity and Pay: Evidence from the Australian Football League. *Economic Record* 98:321, 166-190. [[Crossref](#)]
41. Joanne Haddad, Jad Chaaban, Ali Chalak, Hala Ghattas. 2022. Does Income Class Affect Life Satisfaction? New Evidence from Cross-Country Microdata. *Social Sciences* 11:6, 262. [[Crossref](#)]
42. Tetiana Borysova, Grygorii Monastyrskyi, Svitlana Khrupovych, Vasylyna Chaikivska. 2022. MARKETING COMMUNICATION POLICY OF LOCAL AUTHORITIES AS A TOOL FOR FORMING THE IMAGE OF MUNICIPAL SERVICE PROVIDERS. *Financial and credit activity problems of theory and practice* 2:43, 306-315. [[Crossref](#)]
43. John D. Marvel. 2022. Incentive distributions in heterogeneous work groups. *International Public Management Journal* 25:3, 454-476. [[Crossref](#)]
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46. Valeria Fanghella, Corinne Faure, Marie-Charlotte Guetlein, Joachim Schleich. 2022. Discriminatory subsidies for energy-efficient technologies and the role of envy. *Resource and Energy Economics* 68, 101298. [[Crossref](#)]
47. J. Adam Cobb, JR Keller, Samir Nurmohamed. 2022. How Do I Compare? The Effect of Work-Unit Demographics on Reactions to Pay Inequality. *ILR Review* 75:3, 665-692. [[Crossref](#)]
48. Karl Schuhmacher, Kristy L. Towry, Jacob Zureich. 2022. Leading by Example in Socially Driven Organizations: The Effect of Transparent Leader Compensation Contracts on Following. *The Accounting Review* 97:3, 373-393. [[Crossref](#)]
49. Tomasz Obloj, Todd Zenger. 2022. The influence of pay transparency on (gender) inequity, inequality and the performance basis of pay. *Nature Human Behaviour* 6:5, 646-655. [[Crossref](#)]
50. Katherine Farrow, Gilles Grolleau, Lisette Ibanez. 2022. Does misery love company? An experimental investigation. *Oxford Economic Papers* 74:2, 523-540. [[Crossref](#)]
51. Martijn Hendriks, Martijn Burger, Harry Commandeur. 2022. The influence of CEO compensation on employee engagement. *Review of Managerial Science* 105. . [[Crossref](#)]
52. Zoë Cullen, Ricardo Perez-Truglia. 2022. How Much Does Your Boss Make? The Effects of Salary Comparisons. *Journal of Political Economy* 130:3, 766-822. [[Crossref](#)]
53. Elena Fumagalli, Laura Fumagalli. 2022. Subjective well-being and the gender composition of the reference group: Evidence from a survey experiment. *Journal of Economic Behavior & Organization* 194, 196-219. [[Crossref](#)]



54. Aurore Grandin, Léonard Guillou, Rita Abdel Sater, Martial Foucault, Coralie Chevallier. 2022. Socioeconomic status, time preferences and pro-environmentalism. *Journal of Environmental Psychology* **79**, 101720. [[Crossref](#)]
55. Eric Cardella, Alex Roomets. 2022. Pay distribution preferences and productivity effects: An experiment. *Journal of Behavioral and Experimental Economics* **96**, 101814. [[Crossref](#)]
56. Nektarios Karanikas, Sikder Mohammad Tawhidul Hasan. 2022. Occupational Health & Safety and other worker wellbeing areas: Results from labour inspections in the Bangladesh textile industry. *Safety Science* **146**, 105533. [[Crossref](#)]
57. Rosanna Stofberg, Calvin M. Mabaso, Mark H.R. Bussin. 2022. Employee responses to pay transparency. *SA Journal of Industrial Psychology* **48**. [[Crossref](#)]
58. Ingrid Smithy Fulmer, Junting Li. 2022. Compensation, Benefits, and Total Rewards: A Bird's-Eye (Re)View. *Annual Review of Organizational Psychology and Organizational Behavior* **9**:1, 147-169. [[Crossref](#)]
59. Yasin GÖRMEZ, Halil ARSLAN, Suat SARI, Mücahid DANIŞ. 2022. SALDA-ML: Machine Learning Based System Design to Predict Salary In-crease. *Advances in Artificial Intelligence Research* . [[Crossref](#)]
60. Kathrin Schnauffer, Fabian Christandl, Sebastian Berger, Timo Meynhardt, Mario Gollwitzer. 2022. The shift to pay transparency: Undermet pay standing expectations and consequences. *Journal of Organizational Behavior* **43**:1, 69-90. [[Crossref](#)]
61. María P. Recalde, Lise Vesterlund. Gender Differences in Negotiation and Policy for Equalizing Outcomes 455-475. [[Crossref](#)]
62. Liyousew Borga, Conchita D'Ambrosio, Anthony Lepinteur. Economic Perspectives on Individual Well-being 45-61. [[Crossref](#)]
63. Liyousew Borga, Conchita D'Ambrosio, Anthony Lepinteur. It's a Family Affair: Family Health and Child Well-being 151-172. [[Crossref](#)]
64. Melisa Demirović, Blaine G. Robbins. 2022. The Norm of Wage Negotiations in the United States. *Socius: Sociological Research for a Dynamic World* **8**, 237802312211154. [[Crossref](#)]
65. Josse Delfgaauw, Robert Dur, Oke Onemu, Joeri Sol. 2022. Team Incentives, Social Cohesion, and Performance: A Natural Field Experiment. *Management Science* **68**:1, 230-256. [[Crossref](#)]
66. Anna Skórska. Praca a jakość życia Polaków - zmiany w okresie pandemii COVID-19 . [[Crossref](#)]
67. James Olabode Bamidele Rotimi, Chamil Dilhan Erik Ramanayaka, Oluwole Alfred Olatunji, Funmilayo Egun Rotimi. 2021. Migrant construction workers' demography and job satisfaction: a New Zealand study. *Engineering, Construction and Architectural Management* **27**. [[Crossref](#)]
68. Sun Youn Lee, Fumio Ohtake. 2021. How Conscious Are You of Others? Further Evidence on Relative Income and Happiness. *Journal of Happiness Studies* **22**:8, 3321-3356. [[Crossref](#)]
69. J. Paul Leigh, Bozhidar Chakalov. 2021. Labor unions and health: A literature review of pathways and outcomes in the workplace. *Preventive Medicine Reports* **24**, 101502. [[Crossref](#)]
70. Paul Dolan, Chloe Foy, Georgios Kavetsos, Laura Kudrna. 2021. Faster, higher, stronger... and happier? Relative achievement and marginal rank effects. *Journal of Behavioral and Experimental Economics* **95**, 101761. [[Crossref](#)]
71. Eik Leong Swee, Haikun Zhan, Nattavudh Powdthavee. 2021. Do perceptions of economic well-being predict the onset of war and peace?. *Journal of Behavioral and Experimental Economics* **95**, 101765. [[Crossref](#)]
72. Pablo Casas-Arce, Carolyn Deller, F. Asís Martínez-Jerez, José Manuel Narciso. 2021. Knowing that you know: incentive effects of relative performance disclosure. *Review of Accounting Studies* **100**. [[Crossref](#)]

73. Loc Thi My Nguyen, Trung Tran, Thuan Van Pham, Hien Thi Thu Le, Thanh Thi Nghiem, Thuy Phuong La, Thao Thi Phuong Trinh, Thuy Ngoc Ta. 2021. Investigation of the relationship between teacher job satisfaction, empowerment and loyalty: the difference between teachers of ethnic majority students and teachers of ethnic minority students in Vietnam. *International Journal of Inclusive Education* 47, 1-14. [[Crossref](#)]
74. Christopher Hoy, Franziska Mager. 2021. Why Are Relatively Poor People Not More Supportive of Redistribution? Evidence from a Randomized Survey Experiment across Ten Countries. *American Economic Journal: Economic Policy* 13:4, 299-328. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
75. Aslı Togan Egrican. 2021. Overlapping board connections with banker directors and corporate loan terms: Evidence from syndicated loans. *Global Finance Journal* 50, 100672. [[Crossref](#)]
76. Rafael Di Tella, Juan Dubra, Alejandro Lagomarsino. 2021. Meet the Oligarchs: Business Legitimacy and Taxation at the Top. *The Journal of Law and Economics* 64:4, 651-674. [[Crossref](#)]
77. Camilla Lenzi, Giovanni Perucca. 2021. People or Places that Don't Matter? Individual and Contextual Determinants of the Geography of Discontent. *Economic Geography* 97:5, 415-445. [[Crossref](#)]
78. Ainoa Aparicio Fenoll. 2021. The best in the class. *Economics of Education Review* 84, 102168. [[Crossref](#)]
79. Yang Zhang, Longfei He. 2021. Theory and experiments on network games of public goods: inequality aversion and welfare preference. *Journal of Economic Behavior & Organization* 190, 326-347. [[Crossref](#)]
80. Mariya Burdina, Scott Hiller. 2021. When Falling Just Short is a Good Thing: The Effect of Past Performance on Improvement. *Journal of Sports Economics* 22:7, 777-798. [[Crossref](#)]
81. Andrea F. M. Martinangeli, Lisa Windsteiger. 2021. Last word not yet spoken: a reinvestigation of last place aversion with aversion to rank reversals. *Experimental Economics* 24:3, 800-820. [[Crossref](#)]
82. Stephen J. Smulowitz, Juan ("John") Almandoz. 2021. Reprint of "Predicting employee wrongdoing: The complementary effect of CEO option pay and the pay gap". *Organizational Behavior and Human Decision Processes* 166, 104-116. [[Crossref](#)]
83. Benjamin Bental, Jenny Kragl. 2021. Inequality and incentives with societal other-regarding preferences. *Journal of Economic Behavior & Organization* 188, 1298-1324. [[Crossref](#)]
84. Thomas Aronsson, Olof Johansson-Stenman. 2021. A note on optimal taxation, status consumption, and unemployment. *Journal of Public Economics* 200, 104458. [[Crossref](#)]
85. Adam Storer, Adam Reich. 2021. 'Losing My Raise': minimum wage increases, status loss and job satisfaction among low-wage employees. *Socio-Economic Review* 19:2, 681-709. [[Crossref](#)]
86. Anthony Lepinteur, Claudia Senik. Chapitre 31. L'économie du bien-être subjectif 573-584. [[Crossref](#)]
87. P Jean-Jacques Herings, Riccardo D Saulle, Christian Seel. 2021. The Last Will be First, and the First Last: Segregation in Societies with Relative Pay-off Concerns. *The Economic Journal* 131:637, 2119-2143. [[Crossref](#)]
88. Yoshio Yanadori, Carol T. Kulik, Jill A. Gould. 2021. Who pays the penalty? Implications of gender pay disparities within top management teams for firm performance. *Human Resource Management* 60:4, 681-699. [[Crossref](#)]
89. Henning Hermes, Martin Huschens, Franz Rothlauf, Daniel Schunk. 2021. Motivating low-achievers —Relative performance feedback in primary schools. *Journal of Economic Behavior & Organization* 187, 45-59. [[Crossref](#)]
90. OLIVER P. HAUSER, GORDON T. KRAFT-TODD, DAVID G. RAND, MARTIN A. NOWAK, MICHAEL I. NORTON. 2021. Invisible inequality leads to punishing the poor and rewarding the rich. *Behavioural Public Policy* 5:3, 333-353. [[Crossref](#)]

91. Ian M. McDonald. 2021. A Keynesian model of aggregate demand in the long-run. *Metroeconomica* 72:3, 442-459. [[Crossref](#)]
92. Lamar Pierce, Laura W. Wang, Dennis J. Zhang. 2021. Peer Bargaining and Productivity in Teams: Gender and the Inequitable Division of Pay. *Manufacturing & Service Operations Management* 23:4, 933-951. [[Crossref](#)]
93. Alexander Lenger, Stephan Wolf, Nils Goldschmidt. 2021. Choosing inequality: how economic security fosters competitive regimes. *The Journal of Economic Inequality* 19:2, 315-346. [[Crossref](#)]
94. Léonard Guillou, Aurore Grandin, Coralie Chevallier. 2021. Temporal discounting mediates the relationship between socio-economic status and social trust. *Royal Society Open Science* 8:6, 202104. [[Crossref](#)]
95. Jarle Aarstad, Olav A. Kvitastein. 2021. Do Operating Profits Induce a Wage Premium Equally Shared among Employees Earning High or Low Incomes?. *Economies* 9:2, 81. [[Crossref](#)]
96. Emmanuel Saez. 2021. Public Economics and Inequality: Uncovering Our Social Nature. *AEA Papers and Proceedings* 111, 1-26. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
97. Sumit Agarwal, Wenlan Qian, Xin Zou. 2021. Thy Neighbor's Misfortune: Peer Effect on Consumption. *American Economic Journal: Economic Policy* 13:2, 1-25. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
98. Shakked Noy, Isabelle Sin. 2021. The effects of neighbourhood and workplace income comparisons on subjective wellbeing. *Journal of Economic Behavior & Organization* 185, 918-945. [[Crossref](#)]
99. Sebastian Galiani, Paul J. Gertler, Raimundo Undurraga. 2021. Aspiration adaptation in resource-constrained environments. *Journal of Urban Economics* 123, 103326. [[Crossref](#)]
100. Mark J. Browne, Annette Hofmann, Andreas Richter, Sophie-Madeleine Roth, Petra Steinorth. 2021. Peer effects in risk preferences: Evidence from Germany. *Annals of Operations Research* 299:1-2, 1129-1163. [[Crossref](#)]
101. James R. Meldrum, Hannah Brenkert-Smith, Patricia A. Champ, Jamie Gomez, Hilary Byerly, Lilia Falk, Christopher M. Barth. 2021. Would you like to know more? The effect of personalized wildfire risk information and social comparisons on information-seeking behavior in the wildland-urban interface. *Natural Hazards* 106:3, 2139-2161. [[Crossref](#)]
102. Noel G. Machado, Jerrin Samuel. 2021. Predictably Irrational Hiring. *NHRD Network Journal* 14:2, 243-258. [[Crossref](#)]
103. Jesse Bricker, Jacob Krimmel, Rodney Ramcharan. 2021. Signaling Status: The Impact of Relative Income on Household Consumption and Financial Decisions. *Management Science* 67:4, 1993-2009. [[Crossref](#)]
104. Valeria Alterman, Peter A. Bamberger, Mo Wang, Jaclyn Koopmann, Elena Belogolovsky, Junqi Shi. 2021. Best Not to Know: Pay Secrecy, Employee Voluntary Turnover, and the Conditioning Effect of Distributive Justice. *Academy of Management Journal* 64:2, 482-508. [[Crossref](#)]
105. Simon Varaine, Ismaël Benslimane, Raul Magni-Berton, Paolo Crosetto. 2021. Attacking the Weak or the Strong? An Experiment on the Targets of Parochial Altruism. *Political Behavior* 67. . [[Crossref](#)]
106. Eiji Yamamura, Ryo Ishida. 2021. Analysis of the implementation of information disclosure ordinances in Japan: the effect on the income of chief executives in local governments. *Constitutional Political Economy* 32:1, 52-67. [[Crossref](#)]
107. Alexander W. Cappelen, Odd-Helge Fjeldstad, Donald Mmari, Ingrid Hoem Sjursen, Bertil Tungodden. 2021. Understanding the resource curse: A large-scale experiment on corruption in Tanzania. *Journal of Economic Behavior & Organization* 183, 129-157. [[Crossref](#)]
108. Andrew E. Clark, Conchita D'Ambrosio, Rong Zhu. 2021. Job quality and workplace gender diversity in Europe. *Journal of Economic Behavior & Organization* 183, 420-432. [[Crossref](#)]

109. Sofoklis Goulas, Rigissa Megalokonomou. 2021. Knowing who you actually are: The effect of feedback on short- and longer-term outcomes. *Journal of Economic Behavior & Organization* **183**, 589-615. [[Crossref](#)]
110. Hui Zheng, Jacob Tarrence, Vincent Roscigno, Scott Schieman. 2021. Workplace financial transparency and Job distress. *Social Science Research* **95**, 102525. [[Crossref](#)]
111. Thomas Longden, David Throsby. 2021. Non-Pecuniary Rewards, Multiple Job-Holding and the Labour Supply of Creative Workers: The Case of Book Authors \*. *Economic Record* **97**:316, 24-44. [[Crossref](#)]
112. Paula Carrasco, Rodrigo Ceni, Ivone Perazzo, Gonzalo Salas. 2021. Are Not Any Silver Linings in the Cloud? Subjective Well-being Among Deprived Young People. *Journal of Happiness Studies* **22**:2, 491-516. [[Crossref](#)]
113. Evan P. Starr, J.J. Prescott, Norman D. Bishara. 2021. Noncompete Agreements in the US Labor Force. *The Journal of Law and Economics* **64**:1, 53-84. [[Crossref](#)]
114. Hang Le, Geoffrey Wood, Shuxing Yin. 2021. Labour market outcomes of different institutional regimes: evidence from the OECD countries. *Cambridge Journal of Economics* **45**:1, 85-108. [[Crossref](#)]
115. Joar Vittersø. A Passion for Happiness: Ruut Veenhoven, Eudaimonia and the Good Life 261-275. [[Crossref](#)]
116. Olga Ponomareva, Denis Shkurin. Employee Job Satisfaction Under Digitalization: A Gender Aspect 239-251. [[Crossref](#)]
117. Claudia Senik. Wage Satisfaction and Reference Wages 1-13. [[Crossref](#)]
118. Hania Fei Wu. 2021. Relative Income Status Within Marriage and Subjective Well-Being in China: Evidence from Observational and Quasi-Experimental Data. *Journal of Happiness Studies* **22**:1, 447-466. [[Crossref](#)]
119. Stephen J. Smulowitz, Juan Almandoz. 2021. Predicting employee wrongdoing: The complementary effect of CEO option pay and the pay gap. *Organizational Behavior and Human Decision Processes* **162**, 123-135. [[Crossref](#)]
120. Robert Grasser, Andrew H. Newman, Grazia Xiong. 2021. Does pay transparency help or hurt? Evidence on employee motivation. *SSRN Electronic Journal* **2**. . [[Crossref](#)]
121. Hengchen Dai, Xiaoyang Long, Dennis Zhang. 2021. Wage Transparency, Negotiation, and Reference-dependent Utility. *SSRN Electronic Journal* **60**. . [[Crossref](#)]
122. Aneesh Raghunandan, Shivaram Rajgopal. 2021. Mandatory Gender Pay Gap Disclosure in the UK: Did Inequity Fall and Do these Disclosures Affect Firm Value?. *SSRN Electronic Journal* **2**. . [[Crossref](#)]
123. Prithwiraj Choudhury, Kevin Crowston, Linus Dahlander, Marco S. Minervini, Sumita Raghuram. 2020. GitLab: work where you want, when you want. *Journal of Organization Design* **9**:1. . [[Crossref](#)]
124. Claudine Gartenberg, Julie Wulf. 2020. Competition and Pay Inequality Within and Between Firms. *Management Science* **66**:12, 5925-5943. [[Crossref](#)]
125. Anna Michniuk. 2020. Why Polish Teachers Quit Jobs in Public Schools? Research Report. *Yearbook of Pedagogy* **43**:1, 153-165. [[Crossref](#)]
126. Henrik Schwabe, Fulvio Castellacci. 2020. Automation, workers' skills and job satisfaction. *PLOS ONE* **15**:11, e0242929. [[Crossref](#)]
127. Andreas Eberl, Matthias Collischon. 2020. The Link between Relative Pay and Job Satisfaction Revisited. *European Sociological Review* **96**. . [[Crossref](#)]
128. Andreas Kuhn. 2020. The individual (mis-)perception of wage inequality: measurement, correlates and implications. *Empirical Economics* **59**:5, 2039-2069. [[Crossref](#)]

129. Lucas Coffman, Paul Niehaus. 2020. Pathways of persuasion. *Games and Economic Behavior* **124**, 239-253. [[Crossref](#)]
130. Francesca Barigozzi, Ester Manna. 2020. Envy in mission-oriented organisations. *Journal of Economic Behavior & Organization* **179**, 395-424. [[Crossref](#)]
131. Richard Murphy, Felix Weinhardt. 2020. Top of the Class: The Importance of Ordinal Rank. *The Review of Economic Studies* **87**:6, 2777-2826. [[Crossref](#)]
132. Xiaoyang Long, Javad Nasiry. 2020. Wage Transparency and Social Comparison in Sales Force Compensation. *Management Science* **66**:11, 5290-5315. [[Crossref](#)]
133. Filiz Güllal, Adam Ayaita. 2020. The Impact of Minimum Wages on Well-Being: Evidence from a Quasi-experiment in Germany. *Journal of Happiness Studies* **21**:7, 2669-2692. [[Crossref](#)]
134. Marcel Brülisauer, Lorenz Goette, Zhengyi Jiang, Jan Schmitz, Renate Schubert. 2020. Appliance-specific feedback and social comparisons: Evidence from a field experiment on energy conservation. *Energy Policy* **145**, 111742. [[Crossref](#)]
135. Kerstin Grosch, Holger A. Rau. 2020. PROCEDURAL UNFAIR WAGE DIFFERENTIALS AND THEIR EFFECTS ON UNETHICAL BEHAVIOR. *Economic Inquiry* **58**:4, 1689-1706. [[Crossref](#)]
136. Xiaotao (Kelvin) Liu, Yu Tian, Yue (May) Zhang. 2020. The Joint Effects of Supervisor Pay Transparency and Vertical Pay Dispersion on Reporting Honesty. *Journal of Management Accounting Research* **32**:3, 179-192. [[Crossref](#)]
137. Lukasz Skowron, Marcin Gąsior, Monika Sak-Skowron. 2020. The Impact of a Time Gap on the Process of Building a Sustainable Relationship between Employee and Customer Satisfaction. *Sustainability* **12**:18, 7446. [[Crossref](#)]
138. Rong Zhao. 2020. Are Nonprofits More Equitable than For-Profits? An Estimate of the Gender Pay Gap in the U.S. Human Services Field. *Human Service Organizations: Management, Leadership & Governance* **44**:4, 343-361. [[Crossref](#)]
139. Han Yu. 2020. Am I the big fish? The effect of ordinal rank on student academic performance in middle school. *Journal of Economic Behavior & Organization* **176**, 18-41. [[Crossref](#)]
140. Di Tong, Daniel Tzabbar, Haemin Dennis Park. How Does Relative Income Affect Entry into Pure and Hybrid Entrepreneurship? 365-383. [[Crossref](#)]
141. Anna Keshabyan, Martin V. Day. 2020. Concerned Whether You'll Make It in Life? Status Anxiety Uniquely Explains Job Satisfaction. *Frontiers in Psychology* **11**. . [[Crossref](#)]
142. Daniel Kuhlmann. 2020. Coveting your neighbour's house: understanding the positional nature of residential satisfaction. *Housing Studies* **35**:6, 1142-1162. [[Crossref](#)]
143. Lasse Loft, Stefan Gehrig, Carl Salk, Jens Rommel. 2020. Fair payments for effective environmental conservation. *Proceedings of the National Academy of Sciences* **117**:25, 14094-14101. [[Crossref](#)]
144. . Bibliographie 109-123. [[Crossref](#)]
145. Qi Ge, Eun Jung Jordan, Myongjin Kim, Leilei Shen. 2020. Returns to job satisfaction in the presence of horizontal mismatch. *Applied Economics* **52**:27, 2913-2930. [[Crossref](#)]
146. Todd Easton. 2020. Teaching econometrics with data on coworker salaries and job satisfaction. *International Review of Economics Education* **34**, 100178. [[Crossref](#)]
147. Tony So. 2020. Classroom experiments as a replication device. *Journal of Behavioral and Experimental Economics* **86**, 101525. [[Crossref](#)]
148. John Sseruyange, Erwin Bulte. 2020. Wage Differentials and Workers' Effort: Experimental Evidence from Uganda. *Oxford Bulletin of Economics and Statistics* **82**:3, 647-668. [[Crossref](#)]
149. Séamus A. Power. 2020. Why a Richer World Will Have More Civic Discontent: The Infinity Theory of Social Movements. *Review of General Psychology* **24**:2, 118-133. [[Crossref](#)]



150. Ki Kyung Song, Eunyoung Whang. 2020. Pay inequality and job satisfaction of law firms: the role of strategic positioning. *Journal of Accounting & Organizational Change* **16**:2, 189-213. [[Crossref](#)]
151. Rafael Di Tella, Dani Rodrik. 2020. Labour Market Shocks and the Demand for Trade Protection: Evidence from Online Surveys. *The Economic Journal* **130**:628, 1008-1030. [[Crossref](#)]
152. Klaus Armingeon, Reto Bürgisser. 2020. Trade-offs between redistribution and environmental protection: the role of information, ideology, and self-interest. *Journal of European Public Policy* **76**, 1-21. [[Crossref](#)]
153. Ricardo Perez-Truglia. 2020. The Effects of Income Transparency on Well-Being: Evidence from a Natural Experiment. *American Economic Review* **110**:4, 1019-1054. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
154. Amin Zokaei Ashtiani, Thomas Dudek, Marc Oliver Rieger. 2020. Happy savers and happy spenders: An experimental study comparing US Americans and Germans. *Journal of Behavioral and Experimental Economics* **85**, 101506. [[Crossref](#)]
155. Matthew Grennan, Ashley Swanson. 2020. Transparency and Negotiated Prices: The Value of Information in Hospital-Supplier Bargaining. *Journal of Political Economy* **128**:4, 1234-1268. [[Crossref](#)]
156. David Morand, Kimberly Merriman, John Deckop. 2020. Making sense of egalitarian pay: Reconceptualising its treatment in organisations. *Human Resource Management Journal* **30**:2, 180-197. [[Crossref](#)]
157. Stavros A. Drakopoulos. 2020. Pay Level Comparisons in Job Satisfaction Research and Mainstream Economic Methodology. *Journal of Happiness Studies* **21**:3, 825-842. [[Crossref](#)]
158. Agnes Cornell, Anders Sundell. 2020. Money matters: The role of public sector wages in corruption prevention. *Public Administration* **98**:1, 244-260. [[Crossref](#)]
159. Jared Nai, Reddi Kotha, Jayanth Narayanan, Phanish Puranam. 2020. Transparency and Fairness in Organizational Decisions: An Experimental Investigation Using the Paired Ultimatum Game. *Strategy Science* **5**:1, 55-70. [[Crossref](#)]
160. Oded Stark, Marcin Jakubek, Krzysztof Szczygielski. 2020. The social preferences of the native inhabitants, and the decision how many asylum seekers to admit. *Review of World Economics* **156**:1, 133-152. [[Crossref](#)]
161. Sarah K Cowan. 2020. Secrets and social networks. *Current Opinion in Psychology* **31**, 99-104. [[Crossref](#)]
162. Mohsen Javdani, Brian Krauth. 2020. Job satisfaction and co-worker pay in Canadian firms. *Canadian Journal of Economics/Revue canadienne d'économie* **53**:1, 212-248. [[Crossref](#)]
163. Gary Charness, Michael Cooper, J Lucas Reddinger. Wage Policies, Incentive Schemes, and Motivation 1-33. [[Crossref](#)]
164. Elizabeth W. Dunn, Ashley V. Whillans, Michael I. Norton, Lara B. Aknin. Prosocial spending and buying time: Money as a tool for increasing subjective well-being 67-126. [[Crossref](#)]
165. Andreas Leibbrandt. 2020. Behavioral constraints on price discrimination: Experimental evidence on pricing and customer antagonism. *European Economic Review* **121**, 103303. [[Crossref](#)]
166. Carlos Corona, Tae Wook Kim. 2020. Contract Disclosure, Earnings Management, and External Enforcement. *SSRN Electronic Journal* . [[Crossref](#)]
167. Tomasz Obloj, Todd R. Zenger. 2020. The Influence of Pay Transparency on Inequity, Inequality, and the Performance-Basis of Pay in Organizations. *SSRN Electronic Journal* . [[Crossref](#)]
168. P. Jean-Jacques Herings, Riccardo Saulle, Christian Seel. 2020. The Last Will Be First, and the First Last: Segregation in Societies With Relative Payoff Concerns. *SSRN Electronic Journal* . [[Crossref](#)]



169. Maximilian A. Müller, Caspar David Peter, Francisco Urzua. 2020. Owner Exposure Through Firm Disclosure. *SSRN Electronic Journal* . [[Crossref](#)]
170. Gordon Liu, Franklin Qian, Xiang Zhang. 2020. On the Role of Health in Climbing the Income Ladder: Evidence from China. *SSRN Electronic Journal* . [[Crossref](#)]
171. Jack Blundell. 2020. Wage Responses to Gender Pay Gap Reporting Requirements. *SSRN Electronic Journal* . [[Crossref](#)]
172. Fangzhou Lu. 2020. Which Firm Should We Save During COVID-19, Distressed Firms or Socially-Responsible Firms?. *SSRN Electronic Journal* **36**. . [[Crossref](#)]
173. Michelle Hutchens, Dan Lynch, Bridget Stomberg. 2020. Sharing the Wealth: The Effects of TCJA Bonuses on Employee Pay Satisfaction. *SSRN Electronic Journal* **105**. . [[Crossref](#)]
174. Ethan Rouen. 2020. Rethinking Measurement of Pay Disparity and Its Relation to Firm Performance. *The Accounting Review* **95**:1, 343-378. [[Crossref](#)]
175. Mitchell Hoffman, Stephen V. Burks. 2020. Worker overconfidence: Field evidence and implications for employee turnover and firm profits. *Quantitative Economics* **11**:1, 315-348. [[Crossref](#)]
176. Dan Weltmann. 2019. Does employee ownership moderate the outcomes of pay dispersion?. *Journal of Participation and Employee Ownership* **2**:2, 151-176. [[Crossref](#)]
177. Jingcheng Fu, Martin Sefton, Richard Upward. 2019. Social comparisons in job search. *Journal of Economic Behavior & Organization* **168**, 338-361. [[Crossref](#)]
178. Thomas Gall, Xiaocheng Hu, Michael Vlassopoulos. 2019. Dynamic incentive effects of assignment mechanisms: Experimental evidence. *Journal of Economics & Management Strategy* **28**:4, 687-712. [[Crossref](#)]
179. Han Yu. 2019. The Impact of Self-Perceived Relative Income on Life Satisfaction: Evidence from British Panel Data. *Southern Economic Journal* **86**:2, 726-745. [[Crossref](#)]
180. Sophie Cetre, Max Lobeck, Claudia Senik, Thierry Verdier. 2019. Preferences over income distribution: Evidence from a choice experiment. *Journal of Economic Psychology* **74**, 102202. [[Crossref](#)]
181. Adeline Delavande, Basit Zafar. 2019. Gender Discrimination and Social Identity: Evidence from Urban Pakistan. *Economic Development and Cultural Change* **68**:1, 1-40. [[Crossref](#)]
182. Karen Mumford, Cristina Sechel. 2019. Job satisfaction amongst academic economists in the UK. *Economics Letters* **182**, 55-58. [[Crossref](#)]
183. Andreas Kuhn. 2019. The subversive nature of inequality: Subjective inequality perceptions and attitudes to social inequality. *European Journal of Political Economy* **59**, 331-344. [[Crossref](#)]
184. Hitoshi Shigeoka, Katsunori Yamada. 2019. Income-comparison attitudes in the United States and the United Kingdom: Evidence from discrete-choice experiments. *Journal of Economic Behavior & Organization* **164**, 414-438. [[Crossref](#)]
185. Robert Sparrow. 2019. Yesterday's Child: How Gene Editing for Enhancement Will Produce Obsolescence—and Why It Matters. *The American Journal of Bioethics* **19**:7, 6-15. [[Crossref](#)]
186. Soomi Lee, Jacqueline A. Mogle, Chandra L. Jackson, Orfeu M. Buxton. 2019. What's not fair about work keeps me up: Perceived unfairness about work impairs sleep through negative work-to-family spillover. *Social Science Research* **81**, 23-31. [[Crossref](#)]
187. Yannis Georgellis, Stephen M. Garcia, Andros Gregoriou, Mustafa Ozbilgin. 2019. Pay Referents and Satisfaction with Pay: Does Occupational Proximity Matter?. *British Journal of Management* **30**:3, 578-592. [[Crossref](#)]
188. Barbara Dluhosch, Daniel Horgos. 2019. International Competition Intensified: Job Satisfaction Sacrificed?. *Social Indicators Research* **143**:2, 479-504. [[Crossref](#)]

189. Oded Stark, Wiktor Budzinski. 2019. Repercussions of negatively selective migration for the behavior of non-migrants when preferences are social. *Journal of Demographic Economics* **85**:2, 165-179. [[Crossref](#)]
190. Simone M Schneider. 2019. Why Income Inequality Is Dissatisfying—Perceptions of Social Status and the Inequality-Satisfaction Link in Europe. *European Sociological Review* **35**:3, 409-430. [[Crossref](#)]
191. Abel Brodeur, Sarah Flèche. 2019. Neighbors' Income, Public Goods, and Well-Being. *Review of Income and Wealth* **65**:2, 217-238. [[Crossref](#)]
192. Leonid Kogan, Dimitris Papanikolaou, Noah Stoffman. 2019. Left Behind: Creative Destruction, Inequality, and the Stock Market. *Journal of Political Economy* . [[Crossref](#)]
193. Saphia Larabi, Alexandre Jost. Chapitre 5. Économie et psychologie positive 87-110. [[Crossref](#)]
194. Emmanuel Saez, Benjamin Schoefer, David Seim. 2019. Payroll Taxes, Firm Behavior, and Rent Sharing: Evidence from a Young Workers' Tax Cut in Sweden. *American Economic Review* **109**:5, 1717-1763. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
195. Amaya Erro-Garcés, Susana Ferreira. 2019. Do better workplace environmental conditions improve job satisfaction?. *Journal of Cleaner Production* **219**, 936-948. [[Crossref](#)]
196. Tiziano Arduini, Daniela Iorio, Eleonora Patacchini. 2019. Weight, reference points, and the onset of eating disorders. *Journal of Health Economics* **65**, 170-188. [[Crossref](#)]
197. Natalia Danzer. 2019. Job satisfaction and self-selection into the public or private sector: Evidence from a natural experiment. *Labour Economics* **57**, 46-62. [[Crossref](#)]
198. F. Scott Bentley, Ingrid S. Fulmer, Rebecca R. Kehoe. 2019. Payoffs for layoffs? An examination of CEO relative pay and firm performance surrounding layoff announcements. *Personnel Psychology* **72**:1, 81-106. [[Crossref](#)]
199. Costanza Naguib, Moreno Baruffini, Rico Maggi. 2019. Do wages and job satisfaction really depend on educational mismatch? Evidence from an international sample of master graduates. *Education + Training* **61**:2, 201-221. [[Crossref](#)]
200. Arindrajit Dube, Laura Giuliano, Jonathan Leonard. 2019. Fairness and Frictions: The Impact of Unequal Raises on Quit Behavior. *American Economic Review* **109**:2, 620-663. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
201. Sofia B. Villas-Boas, Rebecca L.C. Taylor, Elizabeth Deakin. 2019. Effects of peer comparisons on low-promotability tasks: Evidence from a university field experiment. *Journal of Economic Behavior & Organization* **158**, 351-366. [[Crossref](#)]
202. Per Johansson, Arizo Karimi, J. Peter Nilsson. 2019. Worker absenteeism: peer influences, monitoring and job flexibility. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* **182**:2, 605-621. [[Crossref](#)]
203. Thomas A. Kochan, Christine A. Riordan, Alexander M. Kowalski, Mahreen Khan, Duanyi Yang. 2019. The Changing Nature of Employee and Labor-Management Relationships. *Annual Review of Organizational Psychology and Organizational Behavior* **6**:1, 195-219. [[Crossref](#)]
204. Thorvaldur Gylfason. Inequality Undermines Democracy and Growth 137-158. [[Crossref](#)]
205. Matthias Collischon. 2019. Relative Pay, Rank and Happiness: A Comparison Between Genders and Part- and Full-Time Employees. *Journal of Happiness Studies* **20**:1, 67-80. [[Crossref](#)]
206. Michael Kremer, Gautam Rao, Frank Schilbach. Behavioral development economics 345-458. [[Crossref](#)]
207. Islam Bourini, Ashraf Jahmani, Roohi Mumtaz, Faisal A. Al-Bourini. 2019. Investigating the managerial practices' effect on Employee-Perceived Service Quality with the moderating role of supportive leadership behavior. *European Research on Management and Business Economics* **25**:1, 8-14. [[Crossref](#)]

208. Victoria Ivashina, Josh Lerner. 2019. Pay now or pay later? The economics within the private equity partnership. *Journal of Financial Economics* 131:1, 61-87. [[Crossref](#)]
209. Andrea Martinangeli, Lisa Windsteiger. 2019. Last Word Not Yet Spoken: Last Place and Rank Reversal Aversion. *SSRN Electronic Journal* . [[Crossref](#)]
210. Benjamin Bental, Jenny Kragl. 2019. Output, Welfare, and Incentives in Economies with Other-Regarding Preferences. *SSRN Electronic Journal* . [[Crossref](#)]
211. Orly Lobel. 2019. Knowledge Pays: Reversing Information Flows & The Future of Pay Equity. *SSRN Electronic Journal* . [[Crossref](#)]
212. Clement Bellet. 2019. The McMansion Effect: Top Size Inequality, House Satisfaction and Home Improvement in U.S. Suburbs. *SSRN Electronic Journal* 56. . [[Crossref](#)]
213. Oded Stark, Wiktor Budzinski. 2019. Repercussions of Negatively Selective Migration for the Behavior of Non-Migrants When Preferences Are Social. *SSRN Electronic Journal* . [[Crossref](#)]
214. Andrea M. Buffa, Qing Liu, Lucy White. 2019. Optimal Delegated Contracting. *SSRN Electronic Journal* . [[Crossref](#)]
215. Henning Hermes, Martin Huschens, Franz Rothlauf, Daniel Schunk. 2019. Motivating Low-Achievers—Relative Performance Feedback in Primary Schools. *SSRN Electronic Journal* 100. . [[Crossref](#)]
216. Austan Goolsbee, Chad Syverson. 2019. Monopsony Power in Higher Education: A Tale of Two Tracks. *SSRN Electronic Journal* 1. . [[Crossref](#)]
217. John Gathergood, George F. Loewenstein, Edika Quispe-Torreblanca, Neil Stewart. 2019. Investor Attention, Reference Points and the Disposition Effect. *SSRN Electronic Journal* . [[Crossref](#)]
218. Marc-Andre Hillebrandt, Petra Steinorth. 2019. Relative Wealth Placement and Risk-Taking Behavior. *SSRN Electronic Journal* . [[Crossref](#)]
219. Clement Bellet, Jan-Emmanuel De Neve, George Ward. 2019. Does Employee Happiness Have an Impact on Productivity?. *SSRN Electronic Journal* 22. . [[Crossref](#)]
220. Sabrina Howell, J. David Brown. 2019. Do Cash Windfalls Affect Wages? Evidence from R&D Grants to Small Firms. *SSRN Electronic Journal* 84. . [[Crossref](#)]
221. Xiaotao Kelvin Liu, Yu Tian, Yue May Zhang. 2019. The Joint Effects of Supervisor Pay Transparency and Vertical Pay Dispersion on Reporting Honesty. *SSRN Electronic Journal* . [[Crossref](#)]
222. Zhechen Wang, Jolanda Jetten, Niklas K. Steffens. Do People Want More Wealth and Status in Unequal Societies? 289-303. [[Crossref](#)]
223. Jennifer Sheehy-Skeffington. Inequality from the Bottom Up: Toward a “Psychological Shift” Model of Decision-Making Under Socioeconomic Threat 213-231. [[Crossref](#)]
224. Aboozar Hadavand. Chapter 10 Misperceptions: An Analysis of Subjective Economic Inequality 247-281. [[Crossref](#)]
225. Gaetano Lisi. 2018. Job satisfaction, job match quality and labour supply decisions. *International Review of Economics* 65:4, 489-505. [[Crossref](#)]
226. Linyang Li. 2018. Financial inclusion and poverty: The role of relative income. *China Economic Review* 52, 165-191. [[Crossref](#)]
227. Bert Van Landeghem, Anneleen Vandeplass. 2018. The relationship between status and happiness: Evidence from the caste system in rural India. *Journal of Behavioral and Experimental Economics* 77, 62-71. [[Crossref](#)]
228. Séamus A. Power. 2018. The Deprivation-Protest Paradox: How the Perception of Unfair Economic Inequality Leads to Civic Unrest. *Current Anthropology* 59:6, 765-789. [[Crossref](#)]

229. Marta Juchnowicz. 2018. Istota sprawiedliwego wynagrodzenia w zarządzaniu – aspekty teoretyczne i realne. *Kwartalnik Ekonomistów i Menedżerów* 49:3, 45-60. [[Crossref](#)]
230. Hanna Kinowska. 2018. Zróżnicowanie oceny sprawiedliwości wynagradzania w zależności od poziomu płac. *Kwartalnik Ekonomistów i Menedżerów* 49:3, 83-98. [[Crossref](#)]
231. Brian Matthews, Jamie Daigle, Melissa Houston. 2018. A dyadic of employee readiness and job satisfaction. *International Journal of Organizational Analysis* 26:5, 842-857. [[Crossref](#)]
232. Rema Hanna, Benjamin A. Olken. 2018. Universal Basic Incomes versus Targeted Transfers: Anti-Poverty Programs in Developing Countries. *Journal of Economic Perspectives* 32:4, 201-226. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
233. Emilie R. Feldman, Claudine Gartenberg, Julie Wulf. 2018. Pay inequality and corporate divestitures. *Strategic Management Journal* 39:11, 2829-2858. [[Crossref](#)]
234. Oded Stark, Ewa Zawojcka, Wilhelm Kohler, Krzysztof Szczygielski. 2018. An adverse social welfare effect of a doubly gainful trade. *Journal of Development Economics* 135, 77-84. [[Crossref](#)]
235. Michalis Drouvelis, Benjamin M. Marx. 2018. Prosociality spillovers of working with others. *Journal of Economic Behavior & Organization* 155, 205-216. [[Crossref](#)]
236. Arianna H. Benedetti, Serena Chen. 2018. High CEO-to-worker pay ratios negatively impact consumer and employee perceptions of companies. *Journal of Experimental Social Psychology* 79, 378-393. [[Crossref](#)]
237. Gary E. Bolton, Yefen Chen. Other-regarding Behavior 199-235. [[Crossref](#)]
238. Youngjoo Kim, Jinkyung Na. 2018. An Empirical Review on Psychological Effects of Inequality : Focused on Economic Inequality. *THE KOREAN JOURNAL OF PSYCHOLOGY : GENERAL* 37:3, 313-347. [[Crossref](#)]
239. Marta Juchnowicz, Hanna Kinowska. 2018. Factors Influencing Evaluation of Remuneration Justice. *Kwartalnik Nauk o Przedsiębiorstwie* 48:3, 41-52. [[Crossref](#)]
240. Abubakar Hamid Danlami, Shri-Dewi Applanaidu, Rabiul Islam. 2018. Axiom of the relative income hypothesis and household energy choice and consumption in developing areas: Empirical evidence using Verme model. *Kasetsart Journal of Social Sciences* 39:3, 422-431. [[Crossref](#)]
241. Catherine D. Rawn, Joanne A. Fox. 2018. Understanding the Work and Perceptions of Teaching Focused Faculty in a Changing Academic Landscape. *Research in Higher Education* 59:5, 591-622. [[Crossref](#)]
242. Steve Cicala, Roland G. Fryer, Jörg L. Spenkuch. 2018. Self-Selection and Comparative Advantage in Social Interactions. *Journal of the European Economic Association* 16:4, 983-1020. [[Crossref](#)]
243. Eddy Cardinaels, Clara Xiaoling Chen, Huaxiang Yin. 2018. Leveling the Playing Field: The Selection and Motivation Effects of Tournament Prize Spread Information. *The Accounting Review* 93:4, 127-149. [[Crossref](#)]
244. Walter Hyll, Lutz Schneider. 2018. Income comparisons and attitudes towards foreigners - Evidence from a natural experiment. *Journal of Comparative Economics* 46:2, 634-655. [[Crossref](#)]
245. Emily Breza, Supreet Kaur, Yogita Shamdasani. 2018. The Morale Effects of Pay Inequality\*. *The Quarterly Journal of Economics* 133:2, 611-663. [[Crossref](#)]
246. Esra Burak. 2018. Is The Sky the Limit? Fair Executive Pay as Performance Rises. *Social Problems* 65:2, 211-230. [[Crossref](#)]
247. Walter Hyll. 2018. Relative concerns at the workplace: on the design of the firm as a social space. *Journal of Evolutionary Economics* 28:2, 245-264. [[Crossref](#)]

248. Hanako Ohmura. 2018. Economic voting using egotropic evaluation as an information cue: how absolute and relative income affects socio-economic evaluations and retrospection. *Behaviormetrika* 45:1, 57-89. [[Crossref](#)]
249. Conchita D'Ambrosio, Andrew E. Clark, Marta Barazzetta. 2018. Unfairness at work: Well-being and quits. *Labour Economics* 51, 307-316. [[Crossref](#)]
250. Gábor Hajdu, Tamás Hajdu. 2018. Intra-Couple Income Distribution and Subjective Well-Being: The Moderating Effect of Gender Norms. *European Sociological Review* 34:2, 138-156. [[Crossref](#)]
251. Frédéric Gavrel, Thérèse Rebière. 2018. On the equilibrium and welfare consequences of getting ahead of the Smiths. *Journal of Public Economic Theory* 20:2, 257-270. [[Crossref](#)]
252. SeEun Jung, Yasuhiro Nakamoto, Masayuki Sato, Katsunori Yamada. 2018. Misperception of Economic Terms. *International Journal of Applied Behavioral Economics* 7:2, 1-14. [[Crossref](#)]
253. Adrian Chadi, Clemens Hetschko. 2018. The magic of the new: How job changes affect job satisfaction. *Journal of Economics & Management Strategy* 27:1, 23-39. [[Crossref](#)]
254. Thomas Aronsson, Olof Johansson-Stenman. 2018. Paternalism against Veblen: Optimal Taxation and Non-respected Preferences for Social Comparisons. *American Economic Journal: Economic Policy* 10:1, 39-76. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
255. Margaret H. Christ, Thomas W. Vance. 2018. Cascading controls: The effects of managers' incentives on subordinate effort to help or harm. *Accounting, Organizations and Society* 65, 20-32. [[Crossref](#)]
256. Patric Diriwachter, Elena Shvartsman. 2018. The anticipation and adaptation effects of intra- and interpersonal wage changes on job satisfaction. *Journal of Economic Behavior & Organization* 146, 116-140. [[Crossref](#)]
257. Lucas Chancel, Alex Hough, Tancrède Voituriez. 2018. Reducing Inequalities within Countries: Assessing the Potential of the Sustainable Development Goals. *Global Policy* 9:1, 5-16. [[Crossref](#)]
258. Dietmar Fehr. 2018. Is increasing inequality harmful? Experimental evidence. *Games and Economic Behavior* 107, 123-134. [[Crossref](#)]
259. Marta Juchnowicz, Hanna Kinowska. 2018. Compensation justice and employee engagement. *Studia i Prace WNEiZ* 52, 199-209. [[Crossref](#)]
260. Ioana Elena Marinescu, Nadav Klein, Andrew Chamberlain, Morgan Smart. 2018. Incentives Can Reduce Bias in Online Reviews. *SSRN Electronic Journal* . [[Crossref](#)]
261. Lamar Pierce, Laura W. Wang, Dennis Zhang. 2018. Peer Bargaining and Productivity in Teams: Gender and the Inequitable Division of Pay. *SSRN Electronic Journal* . [[Crossref](#)]
262. Fan Wang, Esteban Puentes, Jere R. Behrman, Flavio Cunha. 2018. You Are What Your Parents Think: Height and Local Reference Points. *SSRN Electronic Journal* . [[Crossref](#)]
263. Oded Stark, Ewa Zawojcka, Wilhelm K. Kohler, Krzysztof Szczygielski. 2018. An Adverse Social Welfare Effect of a Doubly Gainful Trade. *SSRN Electronic Journal* . [[Crossref](#)]
264. Patrick Harless, Romans Pancs. 2018. A Social-Status Rationale for Repugnant and Protected Market Transactions. *SSRN Electronic Journal* 36. . [[Crossref](#)]
265. Ingolf Dittmann, Maurizio Montone, Yuhao Zhu. 2018. Wage Gap and Stock Returns. *SSRN Electronic Journal* 36. . [[Crossref](#)]
266. Karl Schuhmacher, Kristy L. Towry, Jacob Zureich. 2018. Leading by Example: The Effect of the Leader's Compensation Contract on Following. *SSRN Electronic Journal* . [[Crossref](#)]
267. Rema Hanna, Benjamin A. Olken. 2018. Universal Basic Incomes vs. Targeted Transfers: Anti-Poverty Programs in Developing Countries. *SSRN Electronic Journal* . [[Crossref](#)]
268. Zoe Cullen, Ricardo Perez-Truglia. 2018. The Salary Taboo: Privacy Norms and the Diffusion of Information. *SSRN Electronic Journal* . [[Crossref](#)]



269. Marcel Bruelisauer, Lorenz Goette, Zhengyi Jiang, Jan Schmitz, Renate Schubert. 2018. Appliance Specific Feedback and Social Comparisons: Evidence From a Field Experiment on Electricity Saving. *SSRN Electronic Journal* . [[Crossref](#)]
270. P. Jean-Jacques Herings, Riccardo Saulle, Christian Seel. 2018. The Last will be First, and the First Last: Segregation in Societies with Positional Externalities. *SSRN Electronic Journal* . [[Crossref](#)]
271. Teng Li, Runjing Lu. 2018. Symbolic Awards at Work: A Regression Discontinuity Design. *SSRN Electronic Journal* . [[Crossref](#)]
272. Yuna Heo, Fangfang Hou, Seongkyu Park. 2018. Happiness, Corporate Investment and Innovation: Evidence across Countries. *SSRN Electronic Journal* 27. . [[Crossref](#)]
273. Brahim Boudarbat, Claude Montmarquette. 2018. L'inadéquation éducation-emploi et son impact sur les revenus chez les travailleurs canadiens. *Cahiers québécois de démographie* 47:1, 109-134. [[Crossref](#)]
274. Tim Friche, Mario Mechtel. 2017. Gambling to leapfrog in status?. *Review of Economics of the Household* 15:4, 1291-1319. [[Crossref](#)]
275. Oded Stark, Fryderyk Falniowski, Marcin Jakubek. 2017. Consensus Income Distribution. *Review of Income and Wealth* 63:4, 899-911. [[Crossref](#)]
276. Wen Wang, Roger Seifert. 2017. Pay reductions and work attitudes: the moderating effect of employee involvement practices. *Employee Relations* 39:7, 935-950. [[Crossref](#)]
277. Oded Stark, Grzegorz Kosiorowski, Marcin Jakubek. An Adverse Social Welfare Consequence of a Rich-to-Poor Income Transfer: A Relative Deprivation Approach 1-37. [[Crossref](#)]
278. Oded Stark. 2017. Migration when Social Preferences are Ordinal: Steady-state Population Distribution and Social Welfare. *Economica* 84:336, 647-666. [[Crossref](#)]
279. Christian King, Gregory B. Lewis. 2017. Nonprofit Pay in a Competitive Market: Wage Penalty or Premium?. *Nonprofit and Voluntary Sector Quarterly* 46:5, 1073-1091. [[Crossref](#)]
280. Laszlo Goerke, Michael Neugart. 2017. Social comparisons in oligopsony. *Journal of Economic Behavior & Organization* 141, 196-209. [[Crossref](#)]
281. Simone M. Schneider, Peter Valet. 2017. Relative Standards and Distributive Justice: How Social Comparison Orientations Moderate the Link between Relative Earnings and Justice Perceptions. *Social Psychology Quarterly* 80:3, 276-287. [[Crossref](#)]
282. Alessandro Pepe, Loredana Addimando, Guido Veronese. 2017. Measuring teacher job satisfaction: Assessing invariance in the Teacher Job Satisfaction Scale (TJSS) across six countries. *Europe's Journal of Psychology* 13:3, 396-416. [[Crossref](#)]
283. Deborah Goldschmidt, Johannes F. Schmieder. 2017. The Rise of Domestic Outsourcing and the Evolution of the German Wage Structure\*. *The Quarterly Journal of Economics* 132:3, 1165-1217. [[Crossref](#)]
284. Nazia Zabin Memon, Lalatendu Kesari Jena. 2017. Gender Inequality, Job Satisfaction and Job Motivation: Evidence from Indian Female Employees. *Management and Labour Studies* 42:3, 253-274. [[Crossref](#)]
285. Donald R. Bacon. 2017. Revisiting the Relationship Between Marketing Education and Marketing Career Success. *Journal of Marketing Education* 39:2, 109-123. [[Crossref](#)]
286. Ricard Gil, Myongjin Kim, Inhyouk Koo. 2017. Does Job Satisfaction Increase Sales and Customer Satisfaction? Evidence from Retail Banking in South Korea. *The B.E. Journal of Economic Analysis & Policy* 17:3. . [[Crossref](#)]
287. Jake Rosenfeld. 2017. Don't ask or tell: Pay secrecy policies in U.S. workplaces. *Social Science Research* 65, 1-16. [[Crossref](#)]



288. Illoong Kwon, Kitae Sohn. 2017. Job dissatisfaction of the self-employed in Indonesia. *Small Business Economics* 49:1, 233-249. [[Crossref](#)]
289. Andrew E. Clark. 2017. Happiness, income and poverty. *International Review of Economics* 64:2, 145-158. [[Crossref](#)]
290. Oded Ravid, Miki Malul, Ro'i Zultan. 2017. The effect of economic cycles on job satisfaction in a two-sector economy. *Journal of Economic Behavior & Organization* 138, 1-9. [[Crossref](#)]
291. Eric J. Allen, Patricia M. Dechow, Devin G. Pope, George Wu. 2017. Reference-Dependent Preferences: Evidence from Marathon Runners. *Management Science* 63:6, 1657-1672. [[Crossref](#)]
292. Mounir Karadja, Johanna Mollerstrom, David Seim. 2017. Richer (and Holier) Than Thou? The Effect of Relative Income Improvements on Demand for Redistribution. *The Review of Economics and Statistics* 99:2, 201-212. [[Crossref](#)]
293. Anders Frederiksen. 2017. Job satisfaction and employee turnover: A firm-level perspective. *German Journal of Human Resource Management: Zeitschrift für Personalforschung* 31:2, 132-161. [[Crossref](#)]
294. Stuart C. Carr, Jane Parker, James Arrowsmith, Jarrod Haar, Harvey Jones. 2017. Humanistic Management and Living Wages: a Case of Compelling Connections?. *Humanistic Management Journal* 1:2, 215-236. [[Crossref](#)]
295. Christina Starmans, Mark Sheskin, Paul Bloom. 2017. Why people prefer unequal societies. *Nature Human Behaviour* 1:4. . [[Crossref](#)]
296. Dirk Sliwka, Peter Werner. 2017. Wage Increases and the Dynamics of Reciprocity. *Journal of Labor Economics* 35:2, 299-344. [[Crossref](#)]
297. Christian Grund, Maike Rubin. 2017. Social comparisons of wage increases and job satisfaction. *Applied Economics* 49:14, 1345-1350. [[Crossref](#)]
298. Patrick Kampkötter. 2017. Performance appraisals and job satisfaction. *The International Journal of Human Resource Management* 28:5, 750-774. [[Crossref](#)]
299. Astrid Gamba, Elena Manzoni, Luca Stanca. 2017. Social comparison and risk taking behavior. *Theory and Decision* 82:2, 221-248. [[Crossref](#)]
300. Christian Grund, Johannes Martin. 2017. Monetary Reference Points of Managers - Empirical Evidence of Status Quo Preferences and Social Comparisons. *Scottish Journal of Political Economy* 64:1, 70-87. [[Crossref](#)]
301. Claudine Gartenberg, Julie Wulf. 2017. Pay Harmony? Social Comparison and Performance Compensation in Multibusiness Firms. *Organization Science* 28:1, 39-55. [[Crossref](#)]
302. Tali Mendelberg. 2017. Status Politics and Rural Consciousness. *Political Communication* 34:1, 142-145. [[Crossref](#)]
303. Loukas Balafoutas, E. Glenn Dutcher, Florian Lindner, Dmitry Ryvkin. 2017. THE OPTIMAL ALLOCATION OF PRIZES IN TOURNAMENTS OF HETEROGENEOUS AGENTS. *Economic Inquiry* 55:1, 461-478. [[Crossref](#)]
304. Evan Starr, J.J. Prescott, Norman D Bishara. 2017. Noncompetes in the U.S. Labor Force. *SSRN Electronic Journal* . [[Crossref](#)]
305. Jin Di Zheng. 2017. Homo Reciprocans Revisited. *SSRN Electronic Journal* . [[Crossref](#)]
306. Aboozar Hadavand. 2017. Misperceptions and Mismeasurements: An Analysis of Subjective Economic Inequality. *SSRN Electronic Journal* . [[Crossref](#)]
307. Christos Andreas Makridis. 2017. Does Culture Pay? Compensating Differentials, Job Satisfaction, and Organizational Practices. *SSRN Electronic Journal* 4. . [[Crossref](#)]
308. Kerstin Grosch, Holger Andreas Rau. 2017. Do Discriminatory Pay Regimes Unleash Antisocial Behavior?. *SSRN Electronic Journal* 49. . [[Crossref](#)]

309. Victor van Pelt, Farah Arshad, Bart Dierynck. 2017. Managerial Reporting Procedures in Hierarchical Firms: An Implicit Contracting Perspective. *SSRN Electronic Journal* . [[Crossref](#)]
310. Han Yu. 2017. Income Comparisons and Life Satisfaction: Evidence from British Panel Data. *SSRN Electronic Journal* . [[Crossref](#)]
311. Matthew Chao, Ian Larkin. 2017. Why Do Goal-Based Incentives Cause Cheating? Unpacking the Confounding Effects of Goals, Social Comparisons and Pay. *SSRN Electronic Journal* . [[Crossref](#)]
312. Oded Stark, Grzegorz Kosiorowski, Marcin Jakubek. 2017. An Adverse Social Welfare Consequence of a Rich-To-Poor Income Transfer: A Relative Deprivation Approach. *SSRN Electronic Journal* . [[Crossref](#)]
313. Francesca Barigozzi, Ester Manna. 2017. Envy in Mission-Oriented Organizations. *SSRN Electronic Journal* . [[Crossref](#)]
314. Léandre Bouffard, Micheline Dubé. 2017. INÉGALITÉ DE REVENUS ET BONHEUR AUTOUR DU MONDE. *Revue québécoise de psychologie* **38**:1, 129-157. [[Crossref](#)]
315. By Sarah Bridges, Trudy Owens. 2016. Female job satisfaction: can we explain the part-time puzzle?. *Oxford Economic Papers* **118**, gpw064. [[Crossref](#)]
316. Philippe Aghion, Ufuk Akcigit, Angus Deaton, Alexandra Roulet. 2016. Creative Destruction and Subjective Well-Being. *American Economic Review* **106**:12, 3869-3897. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
317. Elena Belogolovsky, Peter Bamberger, Valeria Alterman, David T. Wagner. 2016. Looking for Assistance in the Dark: Pay Secrecy, Expertise Perceptions, and Efficacious Help Seeking Among Members of Newly Formed Virtual Work Groups. *Journal of Business and Psychology* **31**:4, 459-477. [[Crossref](#)]
318. Eiji Yamamura, Yoshiro Tsutsui, Fumio Ohtake. 2016. Relative Income Position and Happiness: Are Cabinet Supporters Different from Others in Japan?. *The Japanese Economic Review* **67**:4, 383-402. [[Crossref](#)]
319. Oded Stark, Marcin Jakubek. Can a Concern for Status Reconcile Diverse Social Welfare Programs? 235-246. [[Crossref](#)]
320. Veronika V. Eberharter. Occupational Choice and Earnings Mobility in the Work Life – Empirical Evidence from Europe and the United States 331-359. [[Crossref](#)]
321. Gary Bolton, Axel Ockenfels, Peter Werner. 2016. Leveraging social relationships and transparency in the insider game. *Journal of the Economic Science Association* **2**:2, 127-143. [[Crossref](#)]
322. Jeffrey Moriarty. 2016. IS 'EQUAL PAY FOR EQUAL WORK' MERELY A PRINCIPLE OF NONDISCRIMINATION?. *Economics and Philosophy* **32**:3, 435-461. [[Crossref](#)]
323. Leonardo Burszty. 2016. POVERTY AND THE POLITICAL ECONOMY OF PUBLIC EDUCATION SPENDING: EVIDENCE FROM BRAZIL. *Journal of the European Economic Association* **14**:5, 1101-1128. [[Crossref](#)]
324. Gary Bolton, Peter Werner. 2016. The influence of potential on wages and effort. *Experimental Economics* **19**:3, 535-561. [[Crossref](#)]
325. Climent Quintana-Domeque, Johannes Wohlfart. 2016. "Relative concerns for consumption at the top": An intertemporal analysis for the UK. *Journal of Economic Behavior & Organization* **129**, 172-194. [[Crossref](#)]
326. Ioannis Ioannou, Shelley Xin Li, George Serafeim. 2016. The Effect of Target Difficulty on Target Completion: The Case of Reducing Carbon Emissions. *The Accounting Review* **91**:5, 1467-1492. [[Crossref](#)]
327. Simone M. Schneider. 2016. Income Inequality and Subjective Wellbeing: Trends, Challenges, and Research Directions. *Journal of Happiness Studies* **17**:4, 1719-1739. [[Crossref](#)]

328. Stefan Legge, Lukas Schmid. 2016. Media attention and betting markets. *European Economic Review* **87**, 304-333. [[Crossref](#)]
329. Louis-Philippe Beland, Richard Murphy. 2016. Ill Communication: Technology, distraction & student performance. *Labour Economics* **41**, 61-76. [[Crossref](#)]
330. Ian Larkin, Lamar Pierce. Compensation and employee misconduct: the inseparability of productive and counterproductive behavior in firms 270-304. [[Crossref](#)]
331. Simone M. Schneider. 2016. Wie Wahrnehmungs- und Bewertungsprozesse unsere materielle Zufriedenheit beeinflussen. *KZfJSS Kölner Zeitschrift für Soziologie und Sozialpsychologie* **68**:2, 341-367. [[Crossref](#)]
332. Semih Tumen, Tugba Zeydanli. 2016. Social interactions in job satisfaction. *International Journal of Manpower* **37**:3, 426-455. [[Crossref](#)]
333. Gary Charness, Ramón Cobo-Reyes, Juan A. Lacomba, Francisco Lagos, Jose Maria Perez. 2016. Social comparisons in wage delegation: experimental evidence. *Experimental Economics* **19**:2, 433-459. [[Crossref](#)]
334. Ester Manna. 2016. Envy in the workplace. *Economics Letters* **142**, 18-21. [[Crossref](#)]
335. Stuart C. CARR, Jane PARKER, James ARROWSMITH, Paul A. WATTERS. 2016. Le salaire vital: synthèse théorique et pistes pour la recherche appliquée. *Revue internationale du Travail* **155**:1, 1-27. [[Crossref](#)]
336. Stuart C. CARR, Jane PARKER, James ARROWSMITH, Paul A. WATTERS. 2016. Marco teórico para un plan de investigación aplicado al salario vital. *Revista Internacional del Trabajo* **135**:1, 1-28. [[Crossref](#)]
337. Stuart C. CARR, Jane PARKER, James ARROWSMITH, Paul A. WATTERS. 2016. The living wage: Theoretical integration and an applied research agenda. *International Labour Review* **155**:1, 1-24. [[Crossref](#)]
338. Ghazala Azmat, Nagore Iriberry. 2016. The Provision of Relative Performance Feedback: An Analysis of Performance and Satisfaction. *Journal of Economics & Management Strategy* **25**:1, 77-110. [[Crossref](#)]
339. Semih Tumen. 2016. A theory of intra-firm group design. *Journal of Productivity Analysis* **45**:1, 89-102. [[Crossref](#)]
340. Katsunori Yamada, Masayuki Sato. Another Avenue for Anatomy of Income Comparisons: Evidence from Hypothetical Choice Experiments 341-384. [[Crossref](#)]
341. Rodrigo Montero, Tomás Rau. Relative Income and Job Satisfaction in Chile 205-217. [[Crossref](#)]
342. Klara Zwickl, Franziska Disslbacher, Sigrid Stagl. 2016. Work-sharing for a sustainable economy. *Ecological Economics* **121**, 246-253. [[Crossref](#)]
343. Oded Stark, Marcin Jakubek. 2016. Can a Concern for Status Reconcile Diverse Social Welfare Programs?. *SSRN Electronic Journal* . [[Crossref](#)]
344. Lauren Calimeris. 2016. Does Happiness Matter? The Effect of Teacher Job Satisfaction on Productivity. *SSRN Electronic Journal* . [[Crossref](#)]
345. Alexei Zakharov. 2016. Social Capital Can Decrease Redistribution: A Political Economy Analysis. *SSRN Electronic Journal* **1** . [[Crossref](#)]
346. Eun Jung Jordan, Myongjin Kim, Leilei Shen. 2016. Are More Satisfied Workers Earning More? Depends on the Age. *SSRN Electronic Journal* **3** . [[Crossref](#)]
347. Bert Van Landeghem, Anneleen Vandeplass. 2016. Lower in Rank, But Happier: The Complex Relationship between Status and Happiness. *SSRN Electronic Journal* **88** . [[Crossref](#)]
348. Oded Stark, Fryderyk Falniowski, Marcin Jakubek. 2016. Consensus Income Distribution. *SSRN Electronic Journal* . [[Crossref](#)]

349. Ricard Gil, Myongjin Kim, Inhyouk Koo. 2016. Does Job Satisfaction Increase Sales and Customer Satisfaction? Evidence from Retail Banking in South Korea. *SSRN Electronic Journal* . [[Crossref](#)]
350. Philipp Ager, Hans-Joachim Voth. 2016. Killer Incentives: Status Competition and Pilot Performance during World War II. *SSRN Electronic Journal* . [[Crossref](#)]
351. Oliver P. Hauser, Gordon T. Kraft-Todd, David G. Rand, Martin A. Nowak, Michael I. Norton. 2016. Invisible Inequality Leads to Punishing the Poor and Rewarding the Rich. *SSRN Electronic Journal* **101**. . [[Crossref](#)]
352. Gurmeet Singh, Neale J. Slack. 2016. Job Satisfaction of Employees Undergoing Public Sector Reform in Fiji. *Theoretical Economics Letters* **06:02**, 313-323. [[Crossref](#)]
353. Devin G. Pope, Justin R. Sydnor. *Behavioral Economics* 800-827. [[Crossref](#)]
354. Rodrigo Montero, Diego Vásquez. 2015. Job Satisfaction and Reference Wages: Evidence for a Developing Country. *Journal of Happiness Studies* **16:6**, 1493-1507. [[Crossref](#)]
355. John J. Cheslock, Trina M. Callie. 2015. Changing salary structure and faculty composition within business schools: Differences across sectors and state funding levels. *Economics of Education Review* **49**, 42-54. [[Crossref](#)]
356. Thomas Aronsson, Olof Johansson-Stenman. 2015. Keeping up with the Joneses, the Smiths and the Tanakas: On international tax coordination and social comparisons. *Journal of Public Economics* **131**, 71-86. [[Crossref](#)]
357. Philip Babcock, Kelly Bedard, Gary Charness, John Hartman, Heather Royer. 2015. LETTING DOWN THE TEAM? SOCIAL EFFECTS OF TEAM INCENTIVES. *Journal of the European Economic Association* **13:5**, 841-870. [[Crossref](#)]
358. Till Gross, Christopher Guo, Gary Charness. 2015. Merit pay and wage compression with productivity differences and uncertainty. *Journal of Economic Behavior & Organization* **117**, 233-247. [[Crossref](#)]
359. Olivier Godechot, Claudia Senik. 2015. Wage comparisons in and out of the firm. Evidence from a matched employer–employee French database. *Journal of Economic Behavior & Organization* **117**, 395-410. [[Crossref](#)]
360. Lena Hipp, Rebecca Kolins Givan. 2015. What Do Unions Do? A Cross-National Reexamination of the Relationship between Unionization and Job Satisfaction. *Social Forces* **94:1**, 349-377. [[Crossref](#)]
361. Florian Baumann, Tim Friehe. 2015. Status concerns as a motive for crime?. *International Review of Law and Economics* **43**, 46-55. [[Crossref](#)]
362. Alexander Pepper, Tom Gosling, Julie Gore. 2015. Fairness, envy, guilt and greed: Building equity considerations into agency theory. *Human Relations* **68:8**, 1291-1314. [[Crossref](#)]
363. Heather Royer, Mark Stehr, Justin Sydnor. 2015. Incentives, Commitments, and Habit Formation in Exercise: Evidence from a Field Experiment with Workers at a Fortune-500 Company. *American Economic Journal: Applied Economics* **7:3**, 51-84. [[Abstract](#)] [[View PDF article](#)] [[PDF with links](#)]
364. Johanna Catherine Maclean, Douglas A. Webber, Michael T. French, Susan L. Ettner. 2015. The Health Consequences of Adverse Labor Market Events: Evidence from Panel Data. *Industrial Relations: A Journal of Economy and Society* **54:3**, 478-498. [[Crossref](#)]
365. Axel Ockenfels, Dirk Sliwka, Peter Werner. 2015. Bonus Payments and Reference Point Violations. *Management Science* **61:7**, 1496-1513. [[Crossref](#)]
366. Yingchao Zhang, Oliver Fabel, Christian Thomann. 2015. Pay inequity effects on back-office employees' job performances: the case of a large insurance firm. *Central European Journal of Operations Research* **23:2**, 421-439. [[Crossref](#)]
367. Daniel J. Benjamin. 2015. A Theory of Fairness in Labour Markets. *Japanese Economic Review* **66:2**, 182-225. [[Crossref](#)]

368. JOHN BESHEARS, JAMES J. CHOI, DAVID LAIBSON, BRIGITTE C. MADRIAN, KATHERINE L. MILKMAN. 2015. The Effect of Providing Peer Information on Retirement Savings Decisions. *The Journal of Finance* **70**:3, 1161-1201. [[Crossref](#)]
369. Karen Mumford, Peter N. Smith. 2015. Peer Salaries and Gender Differences in Job Satisfaction in the Workplace. *The Manchester School* **83**:3, 307-313. [[Crossref](#)]
370. Alline Alves de Sousa, Marilia Ferreira Dela Coleta. 2015. Professional profile, well-being and job satisfaction among psychologists working in public healthcare services. *Estudos de Psicologia (Campinas)* **32**:2, 249-258. [[Crossref](#)]
371. Sarah Brown, Daniel Gray, Jennifer Roberts. 2015. The relative income hypothesis: A comparison of methods. *Economics Letters* **130**, 47-50. [[Crossref](#)]
372. Tuomas Kosonen, Olli Ropponen. 2015. The role of information in tax compliance: Evidence from a natural field experiment. *Economics Letters* **129**, 18-21. [[Crossref](#)]
373. Jenny Kragl. 2015. Group versus Individual Performance Pay in Relational Employment Contracts when Workers are Envious. *Journal of Economics & Management Strategy* **24**:1, 131-150. [[Crossref](#)]
374. Johanna Catherine Maclean, Douglas Webber, Michael T. French. 2015. Workplace problems, mental health and substance use. *Applied Economics* **47**:9, 883-905. [[Crossref](#)]
375. Michael Firth, Tak Yan Leung, Oliver M. Rui, Chaohong Na. 2015. Relative pay and its effects on firm efficiency in a transitional economy. *Journal of Economic Behavior & Organization* **110**, 59-77. [[Crossref](#)]
376. Benjamin Edelman, Ian Larkin. 2015. Social Comparisons and Deception Across Workplace Hierarchies: Field and Experimental Evidence. *Organization Science* **26**:1, 78-98. [[Crossref](#)]
377. Andrew E. Clark, Conchita D'Ambrosio. Attitudes to Income Inequality 1147-1208. [[Crossref](#)]
378. Amy Brann. Are You Capitalizing on a Neuro-friendly Culture? 150-164. [[Crossref](#)]
379. Tanguy Bernard, Stefan Dercon, Kate Orkin, Alemayehu Seyoum Taffesse. 2015. Will Video Kill the Radio Star? Assessing the Potential of Targeted Exposure to Role Models through Video: Table 1: *The World Bank Economic Review* **29**:suppl 1, S226-S237. [[Crossref](#)]
380. Marco Kleine, Sebastian Kube. 2015. Communication and Trust in Principal-Team Relationships: Experimental Evidence. *SSRN Electronic Journal* . [[Crossref](#)]
381. Fernanda L. L. de Leon, Sang-Hyun Kim. 2015. Ingroup and Outgroup Biases in the Marketplace: A Field Experiment During the World Cup. *SSRN Electronic Journal* . [[Crossref](#)]
382. Chi Liao. 2015. Risk Taking Begets Risk Taking: Evidence from Casino Openings and Investor Portfolios. *SSRN Electronic Journal* . [[Crossref](#)]
383. Ricardo Perez-Truglia. 2015. Measuring the Value of Self- and Social-Image: Evidence from a Natural Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
384. Deborah Goldschmidt, Johannes F. Schmieder. 2015. The Rise of Domestic Outsourcing and the Evolution of the German Wage Structure. *SSRN Electronic Journal* . [[Crossref](#)]
385. Abel Brodeur. 2015. Essays in Applied Economics. *SSRN Electronic Journal* . [[Crossref](#)]
386. Boris Gershman. 2014. The two sides of envy. *Journal of Economic Growth* **19**:4, 407-438. [[Crossref](#)]
387. Eric van Damme, Kenneth G. Binmore, Alvin E. Roth, Larry Samuelson, Eyal Winter, Gary E. Bolton, Axel Ockenfels, Martin Dufwenberg, Georg Kirchsteiger, Uri Gneezy, Martin G. Kocher, Matthias Sutter, Alan G. Sanfey, Hartmut Kliemt, Reinhard Selten, Rosemarie Nagel, Ofer H. Azar. 2014. How Werner Güth's ultimatum game shaped our understanding of social behavior. *Journal of Economic Behavior & Organization* **108**, 292-318. [[Crossref](#)]
388. Xavier Fontaine, Katsunori Yamada. 2014. Caste Comparisons in India: Evidence From Subjective Well-Being Data. *World Development* **64**, 407-419. [[Crossref](#)]

389. Salvatore Miglietta. 2014. Incentives and Relative Wealth Concerns. *Quarterly Journal of Finance* 04:04, 1450013. [[Crossref](#)]
390. Ambra Poggi. 2014. Within-Establishment Wage Inequality and Satisfaction. *Economics* 8:1. . [[Crossref](#)]
391. Elena Belogolovsky, Peter A. Bamberger. 2014. Signaling in Secret: Pay for Performance and the Incentive and Sorting Effects of Pay Secrecy. *Academy of Management Journal* 57:6, 1706-1733. [[Crossref](#)]
392. Nick Feltovich, Ourega-Zoé Ejebu. 2014. Do positional goods inhibit saving? Evidence from a life-cycle experiment. *Journal of Economic Behavior & Organization* 107, 440-454. [[Crossref](#)]
393. Alexander W. Cappelen, Tom Eichele, Kenneth Hugdahl, Karsten Specht, Erik Ø. Sørensen, Bertil Tungodden. 2014. Equity theory and fair inequality: A neuroeconomic study. *Proceedings of the National Academy of Sciences* 111:43, 15368-15372. [[Crossref](#)]
394. Aysit Tansel, Şaziye Gazioğlu. 2014. Management-employee relations, firm size and job satisfaction. *International Journal of Manpower* 35:8, 1260-1275. [[Crossref](#)]
395. Daniel L. Hicks, Joan Hamory Hicks. 2014. Jealous of the Joneses: conspicuous consumption, inequality, and crime. *Oxford Economic Papers* 66:4, 1090-1120. [[Crossref](#)]
396. Michael I. Norton. 2014. Unequality. *Policy Insights from the Behavioral and Brain Sciences* 1:1, 151-155. [[Crossref](#)]
397. Xiaobo Lü. 2014. Does Changing Economic Well-Being Shape Resentment About Inequality in China?. *Studies in Comparative International Development* 49:3, 300-320. [[Crossref](#)]
398. Giacomo De Giorgi, Michele Pellizzari. 2014. Understanding Social Interactions: Evidence from the Classroom. *The Economic Journal* 124:579, 917-953. [[Crossref](#)]
399. Alexandru Cojocaru. 2014. Fairness and inequality tolerance: Evidence from the Life in Transition Survey. *Journal of Comparative Economics* 42:3, 590-608. [[Crossref](#)]
400. Alain Cohn, Ernst Fehr, Benedikt Herrmann, Frédéric Schneider. 2014. SOCIAL COMPARISON AND EFFORT PROVISION: EVIDENCE FROM A FIELD EXPERIMENT. *Journal of the European Economic Association* 12:4, 877-898. [[Crossref](#)]
401. Bruno S. Frey, Jana Gallus, Lasse Steiner. 2014. Open issues in happiness research. *International Review of Economics* 61:2, 115-125. [[Crossref](#)]
402. Alois Stutzer, Tommaso Reggiani. 2014. On the many accounts of public happiness. *International Review of Economics* 61:2, 109-113. [[Crossref](#)]
403. Michael A. Arnold, R. Daniel Lineberger, Tim D. Davis, David W. Reed, William J. McKinley. 2014. A Survey of North American Horticulture Graduate Programs: Demographics, Policies, Finances, and Metrics. *HortTechnology* 24:2, 241-251. [[Crossref](#)]
404. Oded Stark, Marcin Jakubek, Fryderyk Falniowski. 2014. Reconciling the Rawlsian and the utilitarian approaches to the maximization of social welfare. *Economics Letters* 122:3, 439-444. [[Crossref](#)]
405. Leslie K. John, George Loewenstein, Scott I. Rick. 2014. Cheating more for less: Upward social comparisons motivate the poorly compensated to cheat. *Organizational Behavior and Human Decision Processes* 123:2, 101-109. [[Crossref](#)]
406. Ilyana Kuziemko, Ryan W. Buell, Taly Reich, Michael I. Norton. 2014. "Last-Place Aversion": Evidence and Redistributive Implications \*. *The Quarterly Journal of Economics* 129:1, 105-149. [[Crossref](#)]
407. Brian Bell, John Van Reenen. 2014. Bankers and Their Bonuses. *The Economic Journal* 124:574, F1-F21. [[Crossref](#)]



408. Gary E. Bolton, Axel Ockenfels. 2014. Does laboratory trading mirror behavior in real world markets? Fair bargaining and competitive bidding on eBay. *Journal of Economic Behavior & Organization* **97**, 143-154. [[Crossref](#)]
409. Oded Stark, Marcin Jakubek, Fryderyk Falniowski. 2014. Reconciling the Rawlsian and the Utilitarian Approaches to the Maximization of Social Welfare. *SSRN Electronic Journal* . [[Crossref](#)]
410. Astrid Gamba, Elena Manzoni. 2014. Social Comparison and Risk Taking Behavior. *SSRN Electronic Journal* . [[Crossref](#)]
411. Claudine Madras Gartenberg, Julie Wulf. 2014. Pay Harmony: Peer Comparison and Executive Compensation. *SSRN Electronic Journal* . [[Crossref](#)]
412. Jesse Bricker, Rodney Ramcharan, Jake Krimmel. 2014. Signaling Status: The Impact of Relative Income on Household Consumption and Financial Decisions. *SSRN Electronic Journal* . [[Crossref](#)]
413. Patrick Kampkötter. 2014. Performance Appraisals and Job Satisfaction. *SSRN Electronic Journal* . [[Crossref](#)]
414. Jan Zilinsky. 2014. Learning About Income Inequality: What is the Impact of Information on Perceptions of Fairness and Preferences for Redistribution?. *SSRN Electronic Journal* . [[Crossref](#)]
415. Tim Friehe, Mario Mechtel, Markus Pannenberg. 2014. Positional Income Concerns: Prevalence and Relationship with Personality and Economic Preferences. *SSRN Electronic Journal* . [[Crossref](#)]
416. Felix M. Kersting, Christian Pfeifer. 2013. Unfair wahrgenommene eigene Entlohnung, Arbeitszufriedenheit und Kündigungsabsicht: Empirische Evidenz auf Basis des SOEPs. *Schmollers Jahrbuch* **133**:4, 511-538. [[Crossref](#)]
417. Stefan Schneck. 2013. Nonlinear evaluation of status and signal effects. *Evidence-based HRM: a Global Forum for Empirical Scholarship* **1**:2, 112-129. [[Crossref](#)]
418. Hong Liu-Kiel, C. Bram Cadsby, Heike Y. Schenk-Mathes, Fei Song, Xiaolan Yang. 2013. A Cross-Cultural Real-Effort Experiment on Wage-Inequality Information and Performance. *The B.E. Journal of Economic Analysis & Policy* **13**:2, 1095-1120. [[Crossref](#)]
419. Ricardo Perez-Truglia. 2013. A test of the conspicuous-consumption model using subjective well-being data. *The Journal of Socio-Economics* **45**, 146-154. [[Crossref](#)]
420. DANIELE NOSENZO. 2013. PAY SECRECY AND EFFORT PROVISION. *Economic Inquiry* **51**:3, 1779-1794. [[Crossref](#)]
421. Kelly Shue. 2013. Executive Networks and Firm Policies: Evidence from the Random Assignment of MBA Peers. *Review of Financial Studies* **26**:6, 1401-1442. [[Crossref](#)]
422. Katsunori Yamada, Masayuki Sato. 2013. Another avenue for anatomy of income comparisons: Evidence from hypothetical choice experiments. *Journal of Economic Behavior & Organization* **89**, 35-57. [[Crossref](#)]
423. Thomas Piketty, Emmanuel Saez. Optimal Labor Income Taxation 391-474. [[Crossref](#)]
424. Leslie K. John, George F. Loewenstein, Scott Rick. 2013. Cheating More for Less: Upward Social Comparisons Motivate the Poorly Compensated to Cheat. *SSRN Electronic Journal* . [[Crossref](#)]
425. Stefan Schneck. 2013. My Wage is Unfair! Just a Feeling or Comparison with Peers?. *SSRN Electronic Journal* . [[Crossref](#)]
426. Xavier Fontaine, Katsunori Yamada. 2013. Caste Comparisons: Evidence from India. *SSRN Electronic Journal* . [[Crossref](#)]
427. Claudine Madras Gartenberg, Julie M. Wulf. 2013. Pay Harmony: Peer Comparison and Executive Compensation. *SSRN Electronic Journal* . [[Crossref](#)]
428. Tobias Pfaff. 2013. Income Comparisons, Income Adaptation, and Life Satisfaction: How Robust are Estimates from Survey Data?. *SSRN Electronic Journal* . [[Crossref](#)]

429. David A. Moss, Anant Thaker, Howard Rudnick. 2013. Inequality and Decision Making: Imagining a New Line of Inquiry. *SSRN Electronic Journal* . [[Crossref](#)]
430. Tuomas Kosonen, Olli Tapani Ropponen. 2013. The Role of Information in Tax Compliance: Evidence from a Natural Field Experiment. *SSRN Electronic Journal* . [[Crossref](#)]
431. Brandon Lehr. 2013. Optimal Income Taxation with Social Preferences. *SSRN Electronic Journal* . [[Crossref](#)]
432. Ian Larkin, Lamar Pierce, Francesca Gino. 2012. The psychological costs of pay-for-performance: Implications for the strategic compensation of employees. *Strategic Management Journal* **33**:10, 1194-1214. [[Crossref](#)]
433. Katsunori Yamada, Masayuki Sato. 2012. Another Avenue for Anatomy of Income Comparisons: Evidence from Hypothetical Choice Experiments. *SSRN Electronic Journal* . [[Crossref](#)]
434. Ricardo Nicolas Perez Truglia. 2012. A Test of the Conspicuous Consumption Model Using Subjective Well-Being Data. *SSRN Electronic Journal* . [[Crossref](#)]
435. Stefan Legge, Lukas Schmid. 2012. The Role of Rankings, Big Shots, and Random Successes. *SSRN Electronic Journal* **91**. . [[Crossref](#)]
436. Anqi Li. 2012. Contracting with Fair Performance Evaluation as Reference Point. *SSRN Electronic Journal* . [[Crossref](#)]
437. Leonid Kogan, Dimitris Papanikolaou, Noah Stoffman. 2012. Technological Innovation: Winners and Losers. *SSRN Electronic Journal* . [[Crossref](#)]
438. Boris Gershman. 2011. The Two Sides of Envy. *SSRN Electronic Journal* . [[Crossref](#)]
439. Steve Cicala, Roland G. Fryer, Jörg L. Spenkuch. 2011. A Roy Model of Social Interactions. *SSRN Electronic Journal* **65**. . [[Crossref](#)]
440. Benjamin G. Edelman, Ian Larkin. 2009. Demographics, Career Concerns or Social Comparison: Who Games SSRN Download Counts?. *SSRN Electronic Journal* . [[Crossref](#)]