



# Effects of Ethical Certification and Ethical eWoM on Talent Attraction

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## Abstract

Whilst previous studies indicate perceived company ethicality as a driver of job seekers' job-pursuit intentions, it is poorly understood how and why ethical market signals actually affect their application decisions. Perceptions of company ethicality result from market signals that are either within the control of the company (e.g. ethical certifications) and from market signals that are beyond the company's control (e.g. ethical eWoM). Building on communication and information processing theories, this study therefore considers both types of ethical market signals, and examines the psychological mechanisms through which they affect job seekers' intention to apply for a job. The results from a controlled online experiment show that both types of ethical market signals increase job seekers' job-pursuit intentions. These relationships are mediated by applicants' attitude towards the job advertisement, their perceptions of corporate employment image and self-referencing. Consequently, the present study alerts practitioners to consider the effects of company-controlled and non-company-controlled ethical market signals, particularly when aiming to recruit highly-qualified millennial candidates.

**Keywords** Ethical certifications · Ethical eWoM · Millennial employment · Job-pursuit intentions

## Introduction

Companies aim at recruiting the most promising talents through measures such as financial incentives, career development programmes or flexible working hours. Another talent-attracting factor is company ethicality, i.e. the extent to which job seekers perceive a company acts responsibly towards the environment and society (Lin et al. 2012; Vlachos et al. 2013; Wang 2013). Almost half of UK's workforce prefers to work for ethical companies (Jenkin 2015). Company ethicality is most important for millennials (Solomon 2016) and highly educated candidates (Tsai et al. 2014; Wang 2013). Extant research indicates that company ethicality results from cues or market signals that job seekers mentally process (e.g. Tsai et al. 2014; Zerbini 2017). Such market signals vary in how successful they are in making ethical criteria decision-relevant (Osburg et al. 2017). However, how and why different types of ethical market signals affect job seekers' job-pursuit intentions is poorly understood. Zerbini (2017, p. 13) recently emphasised that studies considering multiple ethical market signals are "lacking in business ethics research" and calls for more research to unveil signalling outcomes in labour markets, considering other outcomes than employer attractiveness.

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To heed this call, we focus on job-pursuit intention as the outcome variable to explain and consider multiple ethical market signals. In particular, we differentiate two types of ethical market signals, ethical certifications in job advertisements and electronic Word-of-Mouth (eWoM) about company ethicality. Ethical certifications, such as Ethisphere (<http://www.ethisphere.com>) or B Corporation (<http://www.bcorporation.com>) are widely recognised as signals of trust and sound company behaviour that affect perceptions of company ethicality (e.g. Zerbinì 2017). On the other hand, eWoM (i.e. social media discussion about company ethicality that job seekers gather from platforms such as LinkedIn, Glassdoor or XING) is increasingly considered as an indispensable source of information for nowadays job seekers; particularly the technologically affine millennials rely on eWoM to gather job-relevant information (Frasca and Edwards 2017; Lee et al. 2013; Rutter et al. 2016).

The two considered types of ethical market signals differ with respect to the extent to which they are under a company's control. Firms can control the inclusion of ethical certifications in job advertisements (hence, 'company-controlled'), whereas ethical eWoM can hardly be controlled (hence, 'non-company-controlled'), suggesting that both types of signals should be considered for a better understanding of what motivates job seekers' pursuit intentions (cf., Eberle et al. 2013). For example, Rutter et al. (2016) argue that job seekers perceive ethical eWoM as a verification of a company's credentials, as the latter is provided independently from the organisation. However, no study before has investigated the combined effects of company-controlled (ethical certifications) and non-company-controlled (ethical eWoM) ethical market signals on job seekers' pursuit intentions. This is a surprising gap in the literature, not at least because employers and recruiters would benefit from insights that elucidate how these different types of ethical market signals operate to attract talents.

In addition, it is important to understand the psychological mechanisms through which company-controlled and non-company-controlled ethical market signals operate to affect job-pursuit intentions. We therefore build on communication and information processing theories, namely MacKenzie et al.'s (1986) *Dual Mediation Hypothesis*, Spence's (1973) *Signaling Theory* and Petty and Cacioppo's (1986) *Elaboration Likelihood Model* to develop a conceptual model that considers job seekers' attitude towards the job ad, corporate employment image and self-referencing as mediating variables in the relationship between multiple ethical market signals and job-pursuit intentions. We derive hypotheses from these theories and test them experimentally with data collected from millennial job seekers in the UK. The empirical results show significant differences in the effects of company-controlled and non-company-controlled ethical signals on job-pursuit intentions and support the

proposed mediation mechanisms with important implications for theory and practice.

We contribute to the existing literature on employer attractiveness and job seeker behaviour in several ways. First, we provide evidence for the relevance of ethical market signals as antecedents of job seekers' job-pursuit intentions. Second, we demonstrate the importance of differentiating between company-controlled (i.e. ethical certification) and non-company-controlled (i.e. positive ethical eWoM) ethical market signals. Third, we uncover three different mediating mechanisms in the relationship between ethical market signals and job-pursuit intentions, thereby offering new insights into how and why ethical market signals take effect.

The remainder is organised as follows: we first present a review of relevant background literature on company ethicality, employer attractiveness and eWoM. We then develop our conceptual model and related hypotheses. Next, we present the particulars of our experimental study and the results of the hypotheses tests. Finally, we discuss the theoretical and managerial implications of our findings.

## Attracting Talents and Company Ethicality

A vital part of recruitment processes is to attract applicants' attention and increase their interest to pursue with a job application (Tsai et al. 2014; Wang 2013). In their meta-analysis, Chapman et al. (2005) show that company attractiveness depends on five factors as perceived by job applicants: characteristics of the job and organisation (e.g. payment, work type and environment, company size and familiarity), behaviour of the recruiter, the recruitment process, person-organisation fit and expectations to be hired. The first factor, characteristics of the job and organisation, includes job seekers' perceptions of company ethicality, hence their perceptions of the company's economic, environmental and social performance (e.g. Al-Tuwaijri et al. 2004; Lin et al. 2012; Tsai et al. 2014). Economic performance is associated with good working environments, development opportunities and sustainable competitive advantage (Tsai et al. 2014). Environmental performance refers to the organisation's environmental impact, such as environmental pollution, waste management or eco-friendly production processes (Al-Tuwaijri et al. 2004). Social performance indicates the extent of the company's social welfare orientation, and how the organisation treats and supports its employees (e.g. equal opportunities) (Lin et al. 2012). As such, company ethicality contributes to building a good corporate employment image and, therefore, consists a sustained competitive advantage with positive impact on the recruitment, the development and the retention of employees (Lin et al. 2012; Stewart et al. 2011).

**Table 1** Studies about the influence of company ethicality on job seekers' application decisions

Authors	Independent variable	Dependent variable	Moderators/mediators	Method	Core finding(s)
Greening and Turban (2000)	Corporate social performance (CSP)	Job-pursuit intention	Gender, environmental concern	Experiment; <i>N</i> = 292 US students	CSP increases applicants' job pursuit intentions and the likelihood of accepting a job offer
Lemmink et al. (2003)	Information source use, familiarity	Application intentions	Corporate image (CI), corporate employment image (CEI)	Survey; <i>N</i> = 68 Dutch students	Information exposure and familiarity positively affect CI and ultimately CEI; CI and CEI independently influence application intentions
Lin et al. (2012)	Perceived corporate citizenship (PCC): economic, legal, ethical, philanthropic	Firms' attractiveness, career success expectation		Survey; <i>N</i> = 627 Taiwanese MBA students	PCC attracts job applicants and increases career success expectations; perceived ethical and philanthropic citizenship do not affect career success expectations
Tsai et al. (2014)	Perceived economic, legal and ethical citizenship	Job pursuit intention	Socio-environmental consciousness	Survey; <i>N</i> = 402 Taiwanese students	All four perceived citizenship dimensions positively affect job pursuit intention; a positive moderation of socio-environmental consciousness is established for ethical and philanthropic citizenship
Wang (2013)	Perceived corporate citizenship (PCC): economic, legal, ethical, philanthropic	Job pursuit intention, recommendation intention	Corporate reputation, job advancement prospects	Survey; <i>N</i> = 606 Taiwanese MBA students	Corporate reputation mediates the effect of all four PCC dimensions on job pursuit intention and recommendation adoption; job advancement prospects mediate the effects of economic and legal citizenship on job pursuit intentions
Yu (2014)	Value congruence	Organisational attraction	Value expression, communication, predictability, need fulfilment, trust	Survey; <i>N</i> = 287 Asian students	Value congruence increases organisational attraction due to the perceived opportunity for value expressions and need fulfilment

Fig. 1 Conceptual model

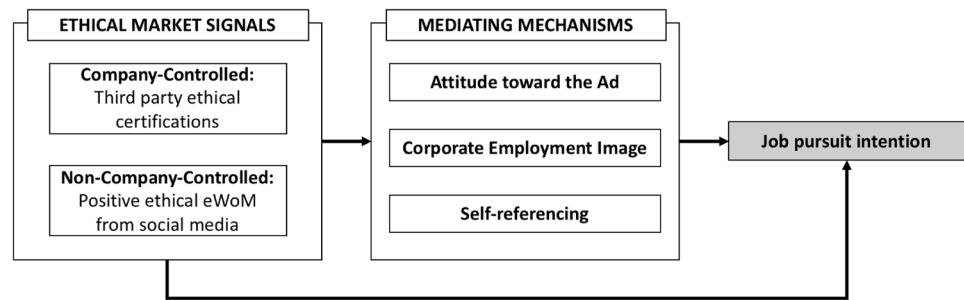


Table 1 provides an overview of empirical studies that explore the influence of company ethicality on talent attraction. While the existing literature indicates positive effects of company ethicality, particularly for millennials (e.g. Solomon 2016), they do not clarify how different types of ethical market signals operate to affect job seekers' perceptions about company ethicality and ensuing job-pursuit intentions. Moreover, most of the existing studies employ cross-sectional designs and may, therefore, not provide definite information about cause-and-effect relationships between company ethicality and job seeker behaviour. The present study addresses these gaps by experimentally investigating how two types of ethical market signals (ethical certifications and ethical eWoM) affect job seekers' pursuit intentions. Our experimental design simulates actual job application scenarios, which is more appropriate for testing causal hypotheses than observational designs. Moreover, we develop insights into the psychological mechanisms that account for the relationship between ethical market signals and pursuit intentions by considering relevant mediator variables.

## Theoretical Developments

The conceptual model that guides the subsequent theoretical developments appears in Fig. 1. Drawing from previous literature, we hypothesise that ethical market signals in the form of third-party ethical certifications and positive ethical eWoM from social media act as antecedents of job seekers' pursuit intentions. We further expect that job seekers' attitude toward the ad, their perceptions of corporate employment image and self-referencing mediate the relationships between ethical market signals and pursuit intention.

### Effects of Ethical Market Signals on Job-Pursuit Intentions

*Signaling theory* helps to understand how job seekers' decisions to respond to job advertisements are driven by the information they receive about potential target employers (Celani and Singh 2011; Rynes 1991; Spence 1973). Following this theory, job seekers aim at reducing information

asymmetries between the organisation and themselves in order to infer the quality of the offering and inform their application decisions. Information asymmetry reduction is most relevant when signal-recipients have limited information about the target, such as typically in job application processes (e.g. Kirmani and Rao 2000; Spence 1973). Job seekers commonly combine signals about company ethicality from various sources to complement and consolidate their perceptions of the company and its actions (cf., Celani and Singh 2011; Srivastava and Lurie 2001). These include signals that may be controlled by the company (here: the disclosure of ethical certificates in job ads) and signals that cannot be controlled by the company (here: positive eWoM about company ethicality). Regardless of its source (company-controlled or non-company-controlled), positive information about company ethicality may signal good working conditions, career development opportunities, sustainable job advantages as well as social and environmental well-being (Greening and Turban 2000; Lin et al. 2012) and may therefore motivate job seekers to engage.

### Company-Controlled Signals about Company Ethicality

Research has repeatedly shown that third-party ethical certifications serve as effective signals of ethical company behaviour in different contexts (Bradru et al. 2014). For example, studies show that ethical certifications enhance consumers' attitudes and trust toward the firm and its products (Aiken and Boush 2006; Vecchio and Annunziata 2015). We likewise expect that third-party ethical certifications in job advertisements serve as positive signals that motivate job seekers' job-pursuit intentions.

**H1a** Job advertisements with third-party ethical certifications, as compared to job advertisements without such certifications, enhance job-pursuit intentions.

### Non-Company-Controlled Signals about Company Ethicality

Job seekers also rely on third-party information about company ethicality that is not under direct control of firms.

Social media are quintessential in this respect, particularly in relation to graduate jobs and for the technologically affine millennials (Frasca and Edwards 2017; Rutter et al. 2016). eWoM from social media platforms such as LinkedIn, Glassdoor or XING typically involves written comments that current or previous employees make about their company (cf., Bi et al. 2017). Paulin et al. (2006) suggest that WoM from experienced employees' offers job seekers valuable insights into the company and its working conditions. Similarly, Rutter et al. (2016) argue that social media endorsements have a verification function and may therefore bias job seekers pursuit intentions. Hence, eWoM represents another market signal that candidates may consider when deciding to apply for a job. In line with *Signaling Theory* (Rynes 1991; Spence 1973), we expect that positive eWoM about company ethicality, as compared to neutral eWoM, serves as an important market signal that motivates job-pursuit intentions.

**H1b** Positive ethical eWoM, as compared to neutral eWoM, enhances job seekers' pursuit intentions.

### Mediating Mechanisms between Ethical Market Signals and Job-Pursuit Intentions

Alongside their direct impact, it is also important to unveil the psychological mechanisms through which ethical market signals affect job seekers' pursuit intentions for a better understanding of how companies may attract talents. Building on MacKenzie et al.'s (1986) *Dual Mediation Hypothesis*, Spence's (1973) *Signaling Theory* and Petty and Cacioppo's (1986) *Elaboration Likelihood Model*, we consider three mediating variables: attitude toward the job ad, corporate employment image and self-referencing, as illustrated in Fig. 1.

#### Attitude toward the Ad

The *Dual Mediation Hypothesis* (MacKenzie et al. 1986) highlights that attitude toward the ad is crucial for achieving advertising effectiveness. Through testing competing frameworks about the causal relationships, MacKenzie et al. (1986) show that attitude toward the ad acts as a core mediator between cognitions about the ad and the brand, as well as attitude toward the brand and ultimately purchase intentions. Accordingly, Bickart and Ruth (2012) found that environmental labels increase consumers' purchase intention through more favourable attitudes towards the ad. Extending the attitude toward the ad model, Goldsmith et al. (2000) show that the credibility of a source, when verified by another entity (i.e. a third-party), influences attitude toward the ad, and ultimately purchase intentions. Similarly, we expect that independent ethical certifications displayed in job ads enhance job seekers' attitude toward that

ad. Following Cheung and Thadani (2012), attitude changes are among the most frequently confirmed consequences of eWoM provision. Hence, positive ethical eWoM may foster positive attitudes towards the ad because eWoM serves as a third-party verification of organisational information (Rutter et al. 2016). We consequently expect that independent endorsements of company ethicality (i.e. ethical certifications or ethical eWoM) lead to enhanced pursuit intentions because of their positive impact on attitude toward the ad.

**H2** Attitude toward the ad mediates the effects of third-party ethical certifications (H2a) and positive ethical eWoM (H2b) on job seekers' pursuit intentions.

#### Corporate Employment Image

While general corporate image or reputation may vary significantly between different stakeholder groups, corporate employment image is a more specific construct that embraces the perceptions of current employees and potential applicants (Lemmink et al. 2003). Corporate employment image determines the attractiveness of organisations for job seekers across industries (Cober et al. 2003; Tsai and Yang 2010; Turban 2001) and is vital to increase job seekers' application intentions, particularly among highly-qualified candidates (Kim et al. 2011; Lemmink et al. 2003). Previous research also reveals a close relationship between a company's ethicality and corporate employment image (Riordan et al. 1997). For example, Tsai et al. (2014) emphasise that job applicants expect organisations to abide ethical standards and norms.

In line with *Signaling Theory* (Rynes 1991; Spence 1973) we expect that ethical market signals affect job seekers' job-pursuit intentions not only directly (H1), but also indirectly through the firms' corporate employment image. Hence, ethical market signals (ethical certificates in job ads or ethical eWoM) may serve to reduce information asymmetries among job seekers and positively affect their perceptions of corporate employment image which, in turn, informs their application intentions. We accordingly expect that corporate employment image mediates the positive effect of ethical market signals on job seekers' job-pursuit intentions.

**H3** Corporate employment image mediates the effects of third-party ethical certifications (H3a) and positive ethical eWoM (H3b) on job seekers' pursuit intentions.

#### Self-Referencing

The *Elaboration Likelihood Model* (Petty and Cacioppo 1986) states that attitude change is attributable to how people process information. Faced with a persuasive message, people engage in higher or lower levels of elaboration of

the message, the so-called central and peripheral routes of persuasion (Petty and Cacioppo 1986). Information that is perceived as personally more relevant tends to encourage deeper processing, and more relevant positive information will therefore lead to more positive reactions in relation to that information (Burnkrant and Unnava 1989; Petty and Cacioppo 1986). Individual or situational factors may shape this process. As such, information that people can personally better connect with tends to be perceived as more relevant and encourages deeper elaboration (Kahle and Homer 1985; Kang and Herr 2006; Yoon and Park 2012).

This points to the importance of considering self-referencing as a third mediator variable in the relationship between ethical market signals and job-pursuit intentions. Self-referencing is “a process inducing relative significance where a consumer relates message information to his or her self-experience or expectation” (Burnkrant and Unnava 1989, p. 632). In turn, the similarity or congruence between a stimulus and an individual affects persuasion positively (Wheeler et al. 2005; Yoon and Park 2012). Layton and Insko (1974, p. 149) called the similarity effect “one of the best documented generalizations in social psychology”. For example, Martin et al. (2004) showed that higher purchase intentions result if individuals identify with the person endorsing a product in an advertisement. Hence, job ads that enhance self-referencing enable people to better connect with the ad, leading to deeper elaboration, and ultimately more favourable job-pursuit intentions. Since nowadays job applicants, especially the millennial generation, increasingly value ethical principles as part of their self-concept (Solomon 2016), it is conceivable that ethical certifications in job ads and positive eWoM about company ethicality increase self-referencing which, in turn, leads to enhanced job-pursuit intentions.

**H4** Self-referencing mediates the effects of third-party ethical certification (H4a) and positive ethical eWoM (H4b) on job-pursuit intention.

## Study

### Pre-study

A preliminary qualitative study was conducted with 31 post-graduate students who were asked to discuss several themes in relation to company ethicality: what they thought of as an ‘ethical employer’, what it takes to identify an organisation as an ethical employer, what relevant 3rd party ethical certifications an employer could obtain/achieve, and the relevance of such 3rd party certifications for job application decisions. Social media and word-of-mouth information,

as well as the importance of identifying with job postings emerged as prominent drivers of their willingness to apply for a job. Moreover, the results suggest that Ethisphere and B Corporation were seen as relevant 3rd party certifications and were, therefore, selected as experimental stimuli in the main study.

### Experimental Design

The experiment relied on a 2 (company-controlled market signals: ethical certification vs. no certification) × 2 (non-company-controlled market signals: positive ethical eWoM vs. neutral ethical eWoM) mixed-factorial design. Company-controlled market signals were varied between subjects and non-company-controlled market signals were varied within subjects (randomly assigned). Participants were asked to imagine that they are searching for a graduate job online, and that they found the job adverts of two fictive companies.

The mock job adverts shown to the respondents differed regarding the inclusion of ethical certifications (with vs. without certification) and a LinkedIn eWoM endorsement (positive vs. neutral) related to the company’s ethicality.<sup>1</sup> Based on the results of the pre-study, we used B Corporation and Ethisphere as ethical certifications.<sup>2</sup> B Corporation (2017) is issued by an international non-profit organisation and certifies around 1000 businesses worldwide that meet a large range of social and environmental criteria. Similarly, Ethisphere (2017) provides a list of 131 businesses, which represent the world’s most ethical companies by considering a company’s ethical business standards and practices, its promotion of managers and employees and implementation of best practices for the industry. We chose LinkedIn to mimic eWoM endorsements since this platform constitutes a widely preferred social media network for job hiring (Melanthiou et al. 2015). We contrasted positive ethical eWoM with neutral ethical eWoM in order to assess the effect of ethicality endorsements (and not a pure social media effect, as it would emerge when presenting no eWoM as the reference condition).

### Data Collection

We conducted data online from 265 students in the UK who were about to apply for a job or were already in the job application process. Respondents’ mean age was 26.68 years

<sup>1</sup> Stimuli are available on request.

<sup>2</sup> Job advertisements may include a range of certifications, which are related to ethical criteria (e.g. Athena SWAN (ECU 2018) for gender equality in science and research, Disability Confident (2018) for companies committed to hiring applicants with disabilities). B Corporation and Ethisphere were selected for this study as they cover a full range of ethical criteria.

**Table 2** Job-pursuit intention models

Model	M0	M1	M2	M3	M3a	M3b	M3c
Intercept	4.79	4.79	4.79	4.79	4.79	4.79	4.79
Certificate (L2)		0.18* (0.02, 0.33)		-0.02	0.07	-0.01	0.02
eWoM (L1)		0.35*** (0.26, 0.43)		-0.06 <sup>†</sup>	0.10**	0.01	0.08*
Certificate × eWoM (L2 × L1)		-0.02		0.01	-0.04	0.02	0.01
AD attitude L2			0.21***	0.22***	0.80***		
AD attitude L1			0.32***	0.33***	0.73***		
Corp. emp. image L2			0.23***	0.23***		0.92***	
Corp. emp. image L1			0.33***	0.38***		0.84***	
Self-ref. L2			0.71***	0.71***			0.93***
Self-ref. L1			0.47***	0.49***			0.85***
Var bSs	1.06	1.06	0.28	0.29	0.76	0.62	0.30
Var wSs	1.29	1.15	0.46	0.46	0.67	0.68	0.60
ICC	0.45						
AIC	1903	1856	1328	1339	1630	1599	1442
BIC	1912	1864	1337	1348	1638	1608	1450

Raw b coefficients are reported in brackets at the 95% CI; variance between subjects (bSs) and within subjects (wSs) allow to calculate the intra class correlation ICC in M0. Mediators included at both levels according to the CWC(M) procedure. AIC and BIC assess global misfit; the smaller the value, the better the model fit

\*\*\* $p_{2t} < 0.001$ , \*\* $p_{2t} < 0.01$ , \* $p_{2t} < 0.05$ , <sup>†</sup> $p_{2t} < 0.10$

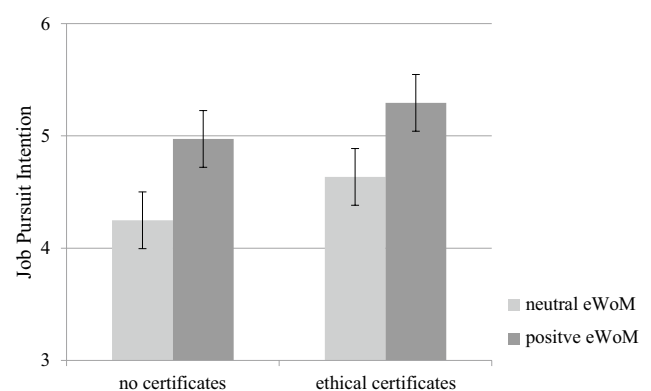
(SD = 6.66) and 43.8% of the participants were male. The selection of mostly millennials allowed us to focus on a generation with a strong preference for ethical company features (Jenkin 2015) and a high use of social media in the recruitment context (Rutter et al. 2016).

The variables of interest were measured with established scales that we adapted to the context (Table 3 in Appendix 1): Attitude toward the ad (Bickart and Ruth 2012) and corporate employment image (Riordan et al. 1997) were assessed with 7-point bipolar adjective items; self-referencing (Yoon and Park 2012) and job-pursuit intention (Wang 2013) were measured with 7-point rating scales. Descriptives and correlations are shown in Table 4 in Appendix 2. Respondents answered all scales after exposure to the experimental conditions. Additionally, manipulation checks were conducted to test the successful manipulation of the four conditions. Participants who failed to answer the manipulation check questions correctly were excluded from subsequent analyses.

## Results

Because one of the conditions (ethical eWoM) was nested in participants, a two-level analysis was conducted using generalised linear mixed model procedure in IBM SPSS Statistics 24. In the multi-level approach, modelling is done stepwise: The M0 models show a large portion of individual variance in the DV (ICC 45%, see last two rows in Table 2) as well

as in the three mediators (attitude toward the ad ICC 32%; corporate employment image ICC 35%; self-referencing ICC 53%; Table 4 in Appendix 2); thus, legitimising the multi-level approach. The experimental factors were effect coded and tested in model M1 (Table 2) for their direct effects. Job-pursuit intention was significantly higher for companies with ethical certifications (estim. 4.97) than for companies without ethical certifications (4.61;  $t = 2.23$ ,  $p_{2t} = 0.026$ ). Additionally, job-pursuit intention also increased with a positive ethical eWoM (5.41) compared to a neutral one (4.44;  $t = 7.74$ ,  $p_{2t} < 0.001$ ). Hence,  $H_1$  and  $H_3$  were accepted (see Fig. 2). Ethical certifications did not mitigate the effect of eWoM or vice versa, although the negative sign pointed to a compensatory trend ( $b = -0.02$ ;  $t = -0.37$ ,  $p_{2t} = 0.714$ ).



**Fig. 2** Estimated means for the experimental conditions (95% CI)

In order to test for mediation, model M1 was also fitted to the three mediators, which led to very similar results (see: Table 5 in Appendix 3): both main effects reached significance and the interaction remained zero. Hence,  $H_{1a}$  and  $H_{1b}$  are both supported.

To test for indirect effects of the experimental factors on job-pursuit intention, the CWC(M) procedure was applied following Zhang et al. (2009): in order to not confound level 1 Mediator—DV relations for the certification effect and level 2 Mediator—DV relations for the eWoM effect, the mediators have to be “Centered Within Context with reintroduction of the subtracted Means at Level 2” (CWC(M)). Thus, mediators appear twice in the prediction of the DV in models M2 and M3 (Table 2): once at the level of the individual L2 (“reintroduced mean”, and globally centered with the means from Table 4 in Appendix 2) and again at the stimulus level L1 centred within individual. Results show a strong increase of model fit for M2 (e.g. compared with  $AIC = 1903$  in M0,  $AIC$  declines in M2–1328) and all mediators reached significant b-coefficients at both levels ( $t > 3.38$ ,  $p_{2t} = 0.001$ ).

Further, Model M3 in Table 2 tests for a complete mediation (Baron and Kenny 1986) or an indirect-only mediation in the terms of Zhao et al. (2010). The results prove that the mediators jointly explain why ethical certifications and positive ethical eWoM increase job-pursuit intention; both experimental factors did not further add to a joint prediction, instead model fit declined (i.e.  $AIC$  and  $BIC$  incline from M2 to M3, thus penalising redundant predictors). Using adequate slopes from M3 (and from the IV—mediator relations, Table 5 in Appendix 3), indirect effects of ethical certifications at L2 (Sobel’s  $z = 1.92, 2.46, 2.44$  for attitude toward the ad, corporate employment image and self-referencing at L2 respectively) and positive ethical eWoM at L1 ( $z = 4.71, 4.95, 5.76$ ) were established. Hence,  $H_{2a}$ ,  $H_{2b}$ ,  $H_{3a}$ ,  $H_{3b}$ ,  $H_{4a}$  and  $H_{4b}$  were all accepted.

We also checked if a single mediator was able to completely mediate the experimental factors alone (M3a–M3c). Results are mixed: although ad attitude profits from positive ethical eWoM (see: Table 5 in Appendix 3) and the indirect effect of positive ethical eWoM via ad attitude at L1 from M3a reached Sobel’s  $z = 7.29$ , a small but significant direct effect of eWoM remained in M3a. Corporate employment image, however, completely mediates both IV. In terms of robustness, the inclusion of all three mediators at both levels in model M2 with its best fit resembles the proposed model.

## Discussion and Conclusion

Recruiting and retaining capable employees is critical to every organisation’s success. The fierce competition for top talents demands companies to constantly assess employer

attractiveness. Offering competitive wages, family-friendly working conditions or development benefits are classic ways to attract talents (e.g. Chapman et al. 2005). More recently, researchers started to focus on company ethicality as a distinctive feature that may enhance employer attractiveness and motivate job seekers to pursue with a job application (Solomon 2016; Tsai et al. 2014; Vlachos et al. 2013; Wang 2013). However, effects of ethical market signals on job seekers’ application behaviour remain poorly understood. Building on research in the fields of advertising, human resource management and information processing we contribute to the existing literature on talent acquisition with a theoretical understanding of how and why different types of ethical market signals (i.e. ethical certifications and ethical eWoM) affect job seekers’ job-pursuit intentions.

## Theoretical Contributions

We extend the existing literature on company ethicality and job seeker behaviour in various ways. Our experimental results show that market signals, that indicate a company’s ethicality, can effectively increase job seekers’ intentions to apply for a job at that company ( $H_1$ ). This corroborates previous research findings suggesting that job seekers’ perceptions of company ethicality affect job application decisions positively (Greening and Turban 2000; Lin et al. 2012; Tsai et al. 2014; Wang 2013). While previous studies typically employ cross-sectional survey designs and study effects of ethicality perceptions, we manipulate ethical market signals experimentally and therefore offer more definite insights into cause-and-effect relationships between company ethicality and job seeker behaviour.

We also show that positive effects hold ethical market signals that are under the control of a company (i.e. ethical certifications) and those that are not under company control (i.e. ethical eWoM). While authors have demonstrated beneficial effects of ethical certifications in consumption situations (e.g. Bradu et al. 2014; Vecchio and Annunziata 2015), our research confirms their importance in the recruitment context. Moreover, our findings respond to the growing research interest for effects of ethical eWoM on talent attraction (Frasca and Edwards 2017; Rutter et al. 2016). It has been suggested that eWoM may affect individual decision making independent of its valence; hence even neutral ethical eWoM may positively affect job seekers’ application decisions (Tang et al. 2014). However, our findings demonstrate that positive, in comparison with neutral, ethical eWoM results in significantly higher intentions to apply ( $H_{1b}$ ). Hence, while the mere existence of ethical eWoM may encourage candidates to apply, positive endorsements of company ethicality by current or previous employees clearly reinforce these effects. Notably, the eWoM providers were in our study unknown to the respondents. Given that perceived



familiarity with the source of information can enhance conviction (cf., Reichelt et al. 2014), it is conceivable that positive effects of positive ethical eWoM may be even stronger when job seekers are familiar with the providers of ethical eWoM.

Furthermore, we provide theoretical explanations of why ethical certifications and ethical eWoM affect job-pursuit intentions and corroborate these empirically. In particular, we identified three psychological intervening mechanisms based on MacKenzie et al.'s (1986) *Dual Mediation Hypothesis* and the consideration of job seekers' attitude toward the job advertisement, *Signaling Theory* (Rynes 1991; Spence 1973) and the consideration of corporate employment image and the *Elaboration Likelihood Model* (Petty and Cacioppo 1986), which points to the importance of achieving issue-relevant elaboration that can encourage self-referencing in relation to company ethicality.

First, our findings confirm that ethical certifications and ethical eWoM affect job seekers' application intentions through their attitude toward the job advertisement ( $H_2$ ). This adds to previous research which has considered effects of ethical information and message recipients' attitude towards the ad foremost in relation to purchasing decisions (Bickart and Ruth 2012). Hence, we extend the existing literature by showing the importance of considering attitude toward the ad as an outcome of different types of ethical market signals in recruitment contexts. Given that our results establish mediation for both ethical certifications and ethical eWoM suggests that applicants consider both types of signals to form attitudes toward the ad, and that effects of one signal may compensate or reinforce effects of the other. Considering attitude toward the ad is important as it is known to affect a variety of positive outcomes, foremost in consumption contexts, such as willingness to pay or customer loyalty (Nagar 2013). Hence, it is conceivable that positive effects of ethical market signals on job seekers' attitude toward a job advertisement extend to other employer-relevant outcomes, such as job satisfaction or employee loyalty.

Second, our results show that both types of ethical market signals increase job-pursuit intentions indirectly through corporate employment image ( $H_3$ ). In line with signaling theory, ethical certifications and positive ethical eWoM constitute unique or discrete signals that shape learning processes and that encourage the development of aggregated or abstract associations, corporate employment image in particular. Researchers and practitioners alike should consider that such signalling outcomes may go beyond job seekers' application behaviour, given that corporate employment image is widely recognised as an important correlate of company attractiveness or overall corporate reputation (e.g. Cober et al. 2003; Kim et al. 2011; Lemmink et al. 2003; Tsai and Yang 2010; Turban 2001). Companies that display ethical certifications in job advertisements and that

are supported in social media for their good ethical conduct may enjoy long lasting benefits not only for an enhanced corporate employment image, but also for the good overall corporate reputation that these signals build.

Finally, our study points to the importance of considering self-referencing as a third psychological mechanism through which ethical market signals affect job seekers' application behaviour ( $H_4$ ). Our findings are consistent with previous research showing that ads that enable self-referencing and that promote feelings of self-image congruity between the ad and the recipient will bias decision making in favour of the advertised product (Kang and Herr 2006; Kahle and Homer 1985; Yoon and Park 2012). Hence, we can conclude that ethical certifications and positive ethical eWoM enable job seekers' self-referencing and allow them to better connect with related job advertisements which ultimately motivates them to pursue with a job application. Our theoretical reasoning and related empirical results therefore corroborate the argument that foremost millennials value ethical companies because of their strive for ethical value congruency (Solomon 2016).

## Implications for Business Ethics

The present study has wider implications for business ethics as it highlights value and means of communicating an organisation's ethicality in attracting talents, but also the ultimate long-term benefits of organisational efforts to operate ethically toward existing employees and other stakeholders in developing a strong employer brand. Whilst societal benefits of business ethics have been discussed in depth, the positive effects for individual organisations have not yet been fully explored. Our findings suggest that an ethical orientation has the potential to result in competitive advantage because it positively influences the relationship with potential future employees. Given that foremost millennials value ethical organisations, this trend can be expected to persist or even increase.

This study is also a testament for stakeholders' integration of different sources that communicate an organisation's ethicality. As these signals can vary in terms of the extent to which they are under organisational control, organisations need to carefully examine their practices in relation to ethicality and ensure authentic and credible communication of ethical information. It appears beneficial for organisations to acquire ethical certifications to attract employees. Nonetheless, certifications may be subject to stakeholders' scrutiny as they consult sources of information that are beyond an organisation's control. Despite all, it must be considered that the reasons why stakeholders value the disclosure of ethical features are not yet fully understood; these may involve altruistic motivations related to social benefits just

as egoistic motivations related to individual benefits such as fewer working hours or better working conditions.

Clearly, business ethics is relevant in the recruitment context; however, as we have demonstrated, ethical characteristics do not only directly influence an organisation's key performance measures, but also affect intermediate measures. Ethical market signals affect recipients' attitudes toward job advertisements, their abstract perceptions of the corporate employment image, as well as their identification with the organisation, all of which explain why company ethicality may consist a long-term competitive advantage.

## Managerial Implications

Businesses need to acknowledge the importance of company ethicality as a driver of highly-qualified candidates' job-pursuit intentions. We recommend that companies should strive to provide ethical signals in an authentic and credible way given that job seekers consider both, company-controlled and non-company-controlled sources of information and discrepancies between the two may generate confusions or distrust. As such, businesses are advised to acquire ethical certifications from independent trustworthy organisations. As part of job advertisements, such certifications can effectively enhance job seekers' pursuit intentions as our results clearly indicate. Moreover, given that job seekers increasingly use social media networking sites as a source of information about potential future employers, companies should be alerted about the impact of ethical eWoM provisions.

The internal marketing literature indicates some strategies about how positive ethical eWoM can be encouraged, and how ethical certification be obtained. Internal marketing is related to several positive outcomes such as job satisfaction and commitment, because it addresses employees' needs and values, and allows for an employee-centred view (Shiu and Yu 2010). Specifically, internal marketing does not only directly affect organisational commitment, the relationship is partially mediated by job involvement and job satisfaction (Ting 2011). Organisational commitment is related to the provision of positive WoM because employees with a strong organisational attachment recommend their organisation more likely to other stakeholders, including job applicants (Paulin et al. 2006). Similarly, research in related domains has supported that identification, satisfaction and commitment can be understood as antecedents of positive WoM (Brown et al. 2005). Hence, companies may encourage current or past employees to talk positively about the company's ethicality. At the same time, internal marketing can also help organisations to obtain ethical certifications given that certifications such as for example B Corporation (2017), evaluate the companies for their impact on employees, including job satisfaction. Thus, organisations should acknowledge the

importance of internal marketing in order to obtain ethical certifications which are relevant for talent attraction.

Finally, businesses should be aware that the influence of ethical market signals is subject to underlying mediating mechanisms. The implication that follows is that companies can benefit from controlling these mediator variables, for example by conducting periodic checks of attitude toward the ad, corporate employment image and self-referencing in relation to their job advertisements; all three mediator variables can serve as indicators to effectively predict job-seeker behaviour.

## Limitations and Future Research

Several limitations in our study provide avenues for further research. First, the study focuses on the effects of company-controlled and non-company-controlled market signals on job seekers' job-pursuit intentions, whilst keeping other characteristics of the job advertisement or the job application context constant. The importance of both types of ethical market signals in relation to other drivers of job-pursuit intention, such as company name, company size, salary and industry field, is therefore subject to future investigations.

Likewise, the influence of ethical market signals on application decisions may depend on individual characteristics such as age, social class, cultural origin or person-organisation fit. Research suggests person-organisation fit as a crucial driver of organisational success. For example, Yu (2014) shows that job seekers who perceive value congruence during recruitment processes develop positive work expectations which, in turn, have a positive impact on organisational attraction. Similarly, Tsai et al. (2014) show that higher levels of socio-environmental consciousness enhance the impact of Corporate Social Performance on job seekers' job-pursuit intentions. We recommend that future research should detail the moderating role of such individual characteristics, based on the theoretical framework established in this study.

Further work is also required to specify the particular influence of different appearances of ethical market signals. Ethical certifications may be distinguished regarding their prominence, their meaning or the certifying source. In the present study, when an established international scheme certifying the company's ethicality (B Corporation, Ethisphere) was provided, respondents reported a higher willingness to apply for the position. However, it must be acknowledged that both schemes used in our experimental study are well-established and provided by recognised independent organisations. Research in the food industry shows that effects of certifications depend on the certifying source (Ortega et al. 2011). Hence, we cannot conclude that ethical certifications per se affect pursuit intentions. The effects may differ for certifications that are provided by less well-recognised

independent certifying organisations, just as they may differ for certification labels that are issued by the company itself. Future research should take this into account. At the same time, future research should explore differences in elaboration in addition to the observed increase in self-referencing. For example, researchers may consider measuring the time respondents took to looking and processing different types of job advertisements. This would allow for a stronger test of our hypotheses, in particular in relation to elaboration.

Similarly, different operationalisations of ethical eWoM should be tested (for example in terms of the degree of positivity). Moreover, given the growing reports of green-washing incidents, the effects of negative ethical eWoM deserve particular attention in comparison with company-controlled signals. Relatedly, future research should also consider the relationship between the provider of ethical eWoM and the recipient (e.g. in terms of perceived similarity).

Finally, an important issue for future research is the reason why applicants value ethical market signals. Whilst ethical signals can be important due to disclosing ethical features of the company (e.g. gender equality, hiring applicants with disabilities), they may also be perceived as an indicator of wider company characteristics such as overall company performance and career development opportunities.

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## Compliance with Ethical Standards

**Conflict of interest** All authors declare that they have no conflict of interest.

**Ethical Approval** All procedures performed in this study were in accordance with the institution's ethical standards, and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards. The study was peer reviewed and approved by the relevant university ethics committee. Participation in the online survey was voluntary, and all responses were treated anonymously. Respondents were informed of the purpose and anonymity of the study at the beginning of the survey. Informed consent was implied by the returning of a completed questionnaire by respective respondents.

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## Appendix 1

**Table 3** Scales

Construct/items	Source
<b>Attitude toward the ad</b> My overall attitude toward this job posting is... Negative–positive Unfavourable–favourable Bad–good	Bickart and Ruth (2012)
<b>Corporate employment image</b> Generally, I think this company... Has a good reputation in the community Has a good reputation in the industry Has a good overall image Is known as a good place to work Has a good reputation among its customers	Riordan et al. (1997)
<b>Self-referencing</b> Please indicate the extent to which you: Picture yourself in this job advertisement Picture yourself in the position of the person in the advertisement Identify with similar experiences in life Identify with the person in the job advertisement	Yoon and Park (2012)
<b>Job-pursuit intention</b> The likelihood that I would apply for this company's job is high My willingness to apply for this company's job is very high In the near future, I would consider applying for this company's job I consider this company as one of my best choices to apply for a job	Wang (2013)

## Appendix 2

**Table 4** Descriptives and correlations among pooled data

	Mean	SD	Cronbach's alpha	Certificates	eWoM	Attitude toward the ad	Corporate employment image	Self-referencing
Attitude toward the ad	5.55	1.18	0.946	0.113	0.284			
Corporate employment image	5.19	1.15	0.947	0.179	0.344	0.643		
Self-referencing	4.62	1.30	0.929	0.132	0.239	0.560	0.639	
Job-pursuit intention	4.79	1.53	0.962	0.116	0.226	0.623	0.669	0.786

## Appendix 3

**Table 5** Models M0 and M1 for the three mediators

DV:	Ad attitude			Corp. emp. image			Self-referencing		
	M0	M1	SE	M0	M1	SE	M0	M1	SE
Intercept	5.55	5.55	0.0585	5.19	5.19	0.0568	4.62	4.62	0.0689
Certificates (L2)		0.13*	0.0585		0.20***	0.0568		0.17*	0.0689
eWoM (L1)		0.33***	0.0370		0.39***	0.0319		0.31**	0.0347
Cert. × eWoM (L2 × L1)		0.03	0.0370		-0.05	0.0319		-0.03	0.0347
Var bSs	0.46	0.54		0.47	0.54		0.87	0.94	
Var wSs	0.95	0.73		0.85	0.58		0.83	0.64	
ICC	32%			35%			51%		
AIC	1658	1594		1622	1501		1710	1646	
BIC	1667	1603		1631	1509		1719	1655	

Raw b coefficient standard errors are reported; Variance between subjects (bSs) and within subjects (wSs) in M0 allow to calculate the intra class correlation ICC. AIC and BIC assess global misfit; the smaller the value, the better the model fit

\*\*\* $p_{2t} < 0.001$ , \*\* $p_{2t} < 0.01$ , \* $p_{2t} < 0.05$

## Appendix 4

See Table 6.

**Table 6** Means for DV and mediators

IV1	IV2	Job-pursuit intention	Attitude toward the ad	Corporate employment image	Self-referencing
Without certificate	Neutral	4.25	5.11	4.54	4.10
	Positive eWoM	4.97	5.72	5.43	4.79
With certificate	Neutral	4.64	5.32	5.05	4.51
	Positive eWoM	5.30	6.04	5.74	5.07

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