Intrinsic Rewards for Creativity and Employee Creativity to the Mediation Role of Knowledge Sharing and Intrinsic Motivation

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The purpose of this research is to examine the mediating role of knowledge sharing and intrinsic motivation on the relationship between intrinsic rewards for creativity and employee creativity and furthermore explore the mediating role of intrinsic motivation on the relationship between intrinsic rewards for creativity and knowledge sharing. A total of 400 matched data were collected from employees and their immediate supervisors of four public universities in Afghanistan. The results revealed that knowledge sharing and intrinsic motivation mediated the linkage between intrinsic rewards for creativity and employee creativity, which comprises idea generation. The results have shown that the relationship between intrinsic rewards for creativity and knowledge sharing is mediated by intrinsic task motivation. The current research contributes to the employee creativity literature by empirically examining the mediating role of knowledge sharing and intrinsic motivation in the relationship between intrinsic rewards for creativity and employee creativity in the one hand and the mediating role of intrinsic motivation in the relationship between intrinsic rewards for creativity and employee creativity in other.

1. Introduction

Creativity plays a crucial role in nurturing organizational performance, effectiveness, improvement, transformations, and development [1–4]. Particularly, the ability to generate and implement novel thoughts that are both useful and constructive has become a critical achievement factor for any organizations including universities [5]. In universities, creativity can be helpful for the creation of worth and facility of services, thus facilitating the understanding of organizational objectives and answering to the anticipated transformations in the society [6]. Moreover, creativity occupies an essential role in universities since it is a place where new knowledge and new ventures are produced as well as innovative ideas, the necessity for new ideas is to enable employees to preserve the organizational position [7, 8].

Public universities are essential as public organizations that offer educational services for the much-needed capital of any country, which is the workforce [9]. Generally, students are a future capital of the country, and they anticipate to receive new services or seeing novel methods in the existing services together with environmental and technological changes from the universities [7, 10]. Furthermore, universities are expected to utilize creativity to generate new concepts such as new knowledge, development knowledge, and new skills; thus, the creativity of universities is a sacrosanct element to keep them relevant and productive [5].
Creativity performed or displayed by employees is a basic factor amongst other approaches to cultivate innovation and organizational achievement [1]. Researchers and professionals alike concur that creativity is vital for organizations' survival, regardless of its presence, whether heavy novelty or slight modifications to the workplace [11, 12]. As a result, organizations achieve innovation when they invest in their employees, since innovation is attainable by increasing employee knowledge, skills, and creativity [10].

Employee creativity can be influenced by numerous factors. Among others, intrinsic rewards originate from the activity itself and usually express senses of achievement, enjoyment, satisfaction, challenge, autonomy, and individual, proficient progress and job autonomy, and proactive personality [13–15]. By providing psychological basic needs to employees, intrinsic rewards satisfy them in their own right in organizations [16]. Given this, using intrinsic rewards for creativity can be a plausible way to boost employee creativity in the workplace. However, empirical evidence on the impact of reward on employee creativity has been ambiguous, declaring positive relations among rewards and creativity in some cases (e.g., [14, 17, 18]) and negative relations in others (e.g., [19, 20]). Moreover, researchers also have recently required an examination regarding the mechanisms on how or through what mediators will reward influence employee job performance [17]. This is an indication that there is a need to comprehend the mechanisms and procedures to describe the types of rewards that affect the creativity enhancement behavior of the employees [12].

To provide some evidence on how the said mechanisms and procedures can be understood, the current study questions the oversimplified reward advances (or delay)—creativity show with the end goal to think about how (through what mediators) intrinsic reward may prompt higher levels of creativity [17, 21]. It further clarifies the nature of the intrinsic rewards—creativity relation and the mediating effects of knowledge sharing as well as intrinsic motivation.

In the current research, our concentration was on intrinsic rewards and the ways they affect the creativity of employees in the workplace. The first point was to comprehend the relation between intrinsic reward and creativity, better, and scholars have supported examining the particular kind of rewards (e.g., rewards for creativity or creativity-contingent rewards), that is, most important to creativity, since the impacts of various kinds of reward and creativity are not equivalent [21, 22]. Hence, we contributed with the role of creativity-contingent rewards on predicting employees' creative behavior with the critical objective to keep up a key separation from the ambiguity caused by rewards represented in general. Therefore, we studied the impact of intrinsic rewards for creativity on employee creativity and further posit that employees’ intrinsic motivation for creativity may be a potential mediating psychological state in the connection between intrinsic rewards and employees’ creativity. Few field studies have concentrated on exploring the positive role of intrinsic motivation dependent on the thought that it is the key mediating process between the setting and employee creativity [23]. Second, we aim to clarify the role of intrinsic motivation in this case as it is considered a mediator; furthermore, we study how intrinsic motivation mediates the effect of intrinsic rewards on employee creativity. Generally, employee motivation is viewed as a key component for directors in knowledge-sharing procedures [20, 24, 25]. The significance of knowledge sharing to organizations expands their enthusiasm for understanding the power of persuasion between employees. However, individual factors, which are able to motivate, persuade, or undermine knowledge sharing, are not understood in its entirety. Studies which used tools, for example, rewarded practice are insufficient [26], and their findings are uncertain and demonstrate ambiguous and controversial results [12, 17, 27, 28]. Thus, the present research uses self-determination theory (SDT) [29], to examine the mediation role of intrinsic motivation in the relationship between intrinsic rewards and knowledge sharing. SDT shows that intrinsically motivated behavior happens when an individual identifies with specific tasks leading to one feeling the sense of autonomy, relatedness, and competence (self-efficacy). This approach supplements existing examinations that have exclusively centered on intrinsic motivation [30, 31]. Thirdly, we explore the mediating role of knowledge sharing on the relationship between intrinsic reward and employees’ creativity. The study recognizes the factors that empower the intrinsic motivation of employees to share knowledge as an organizational improvement, which leads to the distribution of original ideas in an organization. According to the Dysvik [32], Hung et al. [33], and Yeh et al. [34], researchers consider knowledge sharing as an enhancer of organizational creativity, which stimulates the generation of creative thoughts, which have the possibility to improve work procedures and to grow new prospects. The current research is advanced in the environment of a competitive intelligence procedure dependent on data gathering and knowledge sharing when, in the perspective of the follower, there is a signal of essential future competitive changes in the workplace. Knowledge sharing is a volunteer performance [34–36]. Motivation assumes a vital role in this performance, and it cannot be required, however, the outcome from an intrinsic motivation to share [37].

Finally, the current study adds to the existing literature by concurrently exploring the effect of intrinsic reward for creativity in shaping knowledge sharing and intrinsic motivation, and in turn, employee creativity. Furthermore, it adds to the literature examining the role of intrinsic reward for creativity in shaping intrinsic motivation, and in turn encouraging employee knowledge sharing. By testing a model that incorporates intrinsic rewards for creativity, our research examines whether intrinsic rewards for creativity have an incremental predictive validity in explaining knowledge sharing and intrinsic motivation. As we examine our molds between employees of public universities in a non-Western cultural setting, our results will add to a better understanding of cultural specificity on the generalizability of employee knowledge sharing and intrinsic motivation reactions in the face of intrinsic rewards for creativity. The current research will definitely suggest some interesting perceptions concerning the effectiveness of intrinsic rewards
for creativity in a relatively understudied country, Afghanistan, with specific importance to the public universities in the country.

2. Theory and Hypotheses

2.1. Employee Creativity. To create a competitive edge, creativity is an essential factor for the contemporary organization. Numerous scholars (e.g., [5, 10, 38, 41, 43]) argue that creativity is an essential factor, which assesses an organizational competitive aptitude. Employee creativity has mainly concentrated on identifying factors that assist to create new thoughts from employees [44]. In the workplace environment, employee creativity is influenced by diverse contextual factors [45]. Based on Andriopoulos [46], creativity in an organization is specified by the creativity of the employees and collections who establish an organization.

Prior researches have attempted to analyze the effect of cognitive style and personality of employee creativity even though others have estimated the effect of contextual factors, which structure part of the setting, on employees’ creativity [31]. Different personal and job-related factors have been recognized to control employee creativity. The nature of the activity assumes a significant role in affecting employees’ inclination to demonstrate creative behavior in the workplace environment [47]. The present research focuses on personal and contextual factors such as intrinsic rewards for creativity, intrinsic motivation, and knowledge sharing, which appear to have a considerable effect on employee creativity in workplaces.

2.2. Intrinsic Rewards for Creativity and Employee Creativity. In the work environment, intrinsic rewards originate from the activity itself and usually express senses of self-satisfaction, accomplishment, enjoyment, challenge, and individual professional development [13, 48]. Intrinsic reward is an untouchable honor of acknowledgment, a feeling of accomplishment, or a sense of fulfillment [49]. Intrinsic rewards and going to intrinsic task motivation are useful for creative performance [14]. Intrinsic rewards are “satisfying in their own right and they give the coordinate satisfaction of essential psychological needs” ([16], p. 22). Consequently, intrinsic rewards tend to influence employees’ task motivation, bringing about consistent task endeavors [13]. When individuals get intrinsic rewards, they are stimulated to work harder and make superior performance because intrinsic rewards advance top-to-bottom job processing and persistence [16]. In the same vein, Chen et al. [23] indicate that when employees believe that their creativity will be comprehended by different intrinsic rewards, they would show a larger amount of creativity in the working environment. Therefore, we hypothesize the following:

\[ H1: \text{intrinsic rewards for creativity are positively related to employee creativity} \]

2.3. Intrinsic Rewards for Creativity and Knowledge Sharing. According to the Wickramasinghe and Widyaratne [50], intrinsic rewards could support knowledge sharing through an individual contribution in collaboration, group task achievement, and formal interactions inside and among teams [51]. Intrinsic rewards had significant and positive associations with knowledge sharing. Intrinsic rewards frequently emphasize and encourage employees on collaboration, group task accomplishment, learning through knowledge sharing, control and autonomy in decision-making, and giving authority to implement ideas that promote employee contribution in the generation and execution of ideas [52]. Furthermore, while employees obtain intrinsic rewards, they are motivated to share knowledge, work more earnestly, and produce quality execution since intrinsic rewards advance inside and out task preparation and diligence [51]. Constant with the previous study, it is hypothesized as follows:

\[ H2: \text{intrinsic rewards for creativity are positively related to knowledge sharing} \]

2.4. Intrinsic Rewards for Creativity and Intrinsic Motivation. Intrinsic rewards for creativity had a significant and positive association with intrinsic task motivation [53–55]. Intrinsic reward as defined earlier is that reward which is unseen, yet it is expressed by the manager or supervisor towards employees [49]. Intrinsic motivation is derived from intrinsic rewards that refer to behaviors, which are originated from within individuals [56]. An experimental study on the increment effect of rewards on creativity demonstrated that intrinsic rewards positively affect intrinsic motivation [22]. Deci et al. [57] indicate that the intrinsic reward will, in general, enhance the obvious ability and consequently increment intrinsic motivation. Thus, we suggest the following hypothesis:

\[ H3: \text{intrinsic rewards for creativity are positively related to intrinsic motivation} \]

2.5. Knowledge Sharing and Employee Creativity. Scholars have mentioned that organizations can effectively advance the knowledge sharing culture by not just combining knowledge in their strategies but also mold employee attitudes and behaviors towards advancing willing and steady knowledge sharing [58–60]. Zhang et al. [61] view knowledge sharing as those activities of how to aid societies of individuals to cooperate, encouraging the trading of their insights, improving the authoritative learning limit, and increasing their capacity to accomplish individual and organizational objectives. In addition, various scholars have shown that the organizational value of employee knowledge increments when it is shared [25, 36]. When employees are ready to share knowledge with partners, organizations would be able to start to oversee knowledge resources successfully. Dong et al. [35] proposed that creativity needs the support of knowledge. Knowledge is, therefore, a composite flow property, which can be utilized to direct human thinking, communication, and behaviors [62]. Yang
et al. [63] recommended that knowledge is a type of human logical thinking for information and data, which can improve human execution at work in decision-making, critical thinking, and adapting; hence, creativity and innovation need new knowledge [64]. Creativity itself is the consequence of knowledge creation [27]. Furthermore, while employees normally share knowledge with their colleagues, they do so in recognition that achieving novel solutions to organizational issues is paramount [65]. Such solutions will require an assorted arrangement of abilities and aptitudes, making it try for workers to recognize them without any help [66]. At the point when employees are not involved in usual knowledge sharing, they may neglect novel manners by which their organization should be able to keep up its competitive advantage [65]. Researchers confirm that if employees were able to recognize pertinent knowledge and actuate the importance of knowledge dispersed between individuals, they will accomplish larger amounts of creativity. Conversely, if singular experience and assets are not shared, the intellectual assets within an employee remain underutilized [67, 68]. Improved knowledge sharing prompts an increasingly far-reaching thought of information that is an important stage for empowering aggregate creativity [11]. The positive linkage between knowledge sharing and employee creativity has lately received some empirical support, involving study and growth employees, and management employees’ collaboration [11, 52, 69, 70]. In light of a meta-analysis, Anderson and Salgado [71] determined that inner correspondence of knowledge and other collaboration-related subjects among colleagues developed as a standout amongst the most dominant operators of new idea generation and implementation. Consequently, it is hypothesized as follows:

H4: knowledge sharing is positively related to employee creativity

2.6. Intrinsic Motivation and Employee Creativity. Intrinsic motivation implies that people have an intrinsic propensity to enhance their abilities and find and learn new things. From the earliest starting point of their lives, people can act just for the interest and the craving for learning without any extrinsic rewards [72]. As it were, when people look in on their work for the excitement, consideration, or fulfillment evoked by interest, self-articulation, or challenge, they are motivated intrinsically. Intrinsic motivators are the inner pieces of the person’s activities. They emerge from the feelings identified with the activity, and they ought to be identified with the person’s work [73]. Intrinsic motivation is known as an internal feeling of motivation which individuals may utilize to enhance one’s aptitude or capacity by means of exercise or experiment [12]. Intrinsic motivation is unique to every individual, and it varies within an individual as dictated by the tasks [74]. As indicated by Smith et al. [54], motivated intrinsically people will, in general, be progressively inquisitive, the more intellectually adaptable, increasingly willing, and ready to hunt for new knowledge and additionally eager to utilize nontraditional ways to deal with achieving choices, which thus may slant these people to be creative. In accordance with this reasoning, intrinsic motivation is perceived as an important segment of creativity [75], and the immediate linkage among the two factors has discovered empirical support [48, 73]. Thus, it is hypothesized as follows:

H5: intrinsic motivation is positively related to employee creativity

2.7. Intrinsic Motivation and Knowledge Sharing. Galia [76] emphasized that intrinsic motivation refers to taking part in a movement or activity benefitting its own, beyond intrigue, or for the joy and fulfillment got from the skill. For instance, via sharing knowledge, employees are able to fulfill through increasing their knowledge, self-confidence, and self-efficacy in their capacity to give knowledge that is valuable to the organization [62, 77]. According to Zhang et al. [28], in addition, workers who share knowledge in online networks advance opportunities to aid other people. The study has identified the essential role of intrinsic motivators in clarifying human behavior in numerous areas [25] comprising knowledge sharing [33]. From an intrinsic motivational perspective, the behavior is extracted by the necessity of employees to sense self-determination and competence in managing their situation [78]. Competence is considered as the intercessions of people with respect to their ability to sort out and execute action plans required to accomplish explicit dimensions of performance [79]. Competence can aid, motivate, and encourage workers to share knowledge with their partners [79–81]. Scholars have additionally discovered that individuals with high self-confidence in their capacity to give profitable knowledge are sure to achieve explicit errands [62]. Knowledge self-efficacy is normally shown in individuals trusting that their knowledge can aid to resolve job-related issues and increase work effectiveness [76]. Employees who trust that they are able to contribute to organizational performance through knowledge sharing can produce further constructive approaches to and meanings with respect to knowledge sharing. Pleasure in aiding and serving other people derives from the perception of altruism [25]. According to Yang et al. [63], altruism is optional action or behaviors, which aid explicit others with an organizationally pertinent task or issue. Past study demonstrates that workers are intrinsically motivated to add knowledge since taking part in knowledgeable interests and resolving issues are interesting or enjoyable, and they like serving other people [25]. Knowledge supporters who get happiness and pleasure from helping other people might be more positively concerned with knowledge sharing and further motivated to share knowledge. Hence, it is hypothesized as follows:

H6: intrinsic motivation is positively related to knowledge sharing

2.8. Mediation Role of Knowledge Sharing between Intrinsic Rewards for Creativity and Employee Creativity. Almeida et al. [62] emphasized that knowledge sharing as a possible improver of intrinsic rewards impacts and established that
intrinsic rewards performances via knowledge sharing affects employees' work results. Knowledge sharing explains the links between intrinsic rewards and employees' job-related behavior by giving extensive motivational mechanisms [76, 82]. Employees encouraged through intrinsic rewards, feel psychologically empowered, and enabled in since they understand the organization’s requirements from them and are well organized to manage their skills, attitudes, and behaviors to these requirements, performance consequences, and requests. They have an advanced sense of power and self-efficiency in their activities and work environments. Greater freedom and decision-making provide employees with the ability to answer with greater levels of creative procedure and engagement [83]. Intrinsic rewards encourage the diffusion of knowledge [62], allocate stimulating tasks [84], and produce knowledgeable inspiration [85], which are all related definitely to creativity. This type of reward gets ready for individuals to be more concerned and increases convictions about their ability to do tasks and achieve work with uniqueness and creativeness [84]. Such types of rewards represent sentiments of satisfaction, accomplishment, challenge, and individual and professional development [14]. The results of [11, 35, 52, 70, 71] presented that employees showed creativity when they work in high-task independence at the work setting with continuous discussion, delegation, and self-direction. Continuous with the prior exploration, it is hypothesized in this research:

H7: knowledge sharing mediates the relationship between intrinsic rewards for creativity and employee creativity

2.9. Mediating Role of Intrinsic Motivation between Intrinsic Rewards for Creativity and Employee Creativity. In the work environment, intrinsic rewards come particularly from the action itself and regularly speak to sentiments of joy, achievement, and individual development [13, 18]. Yoon et al. [14] exhibited that the intrinsic reward will, in general, enhance the observable ability and consequently increment intrinsic motivation. Intrinsically motivated employees contribute more vital endeavors, as they have an unusual condition of concern, solid interest, and a need to know [25]. Intrinsic motivation produces positive fondness, psychological flexibility, interest in hazard taking, and diligence, prompting the advancement of creativity [31]. Three possible ways were recognized by researchers to know how intrinsic motivation boosts creativity. First, as proposed by emotion theorists, intrinsic motivation positively affects [86], which stimuli creative behavior through growing the volume of psychological indications accessible, expanding the scope of consideration accessible for adapting different thoughts, and advancing the subjective flexibility for defining designs and likings among thoughts [85]. Second, as contended by self-determination theorists, employees who are motivated intrinsically will probably have a larger amount of interest and a superior concern in knowing, enabling them to create cognitive flexibility, a readiness to go for broke, and receptiveness to a multifaceted nature, which finally prompts increments in creativity [87]. Lastly, both self-determination and emotion theorists concur that determination assumes a basic role in intrinsic motivation, boosting creative behavior. From the emotion theorist perspective, intrinsic motivation promotes positive liking, which, thus, creates continued emotional involvement and a more prominent time promise to job [88]. From the self-determination theorist perspective, intrinsic motivation empowers self-efficacy and intrigue, which enables employees to endure, stimulating, confused, and unique errands [89], and furnishes them with a more prominent focus for those errands [87]. Based on the prior shreds of evidence, we hypothesize the following:

H8: intrinsic motivation plays a mediating role in the relationship between intrinsic rewards for creativity and employee creativity

2.10. Mediation Role of Intrinsic Motivation between Intrinsic Reward for Creativity and Knowledge Sharing. According to self-determination theory (SDT), knowledge sharing is regarded as an intrinsically motivated behavior because it aligns an individual's psychological basic needs for relatedness, independence, and competency (increasing one’s self-efficacy) [29, 62]. The nature of knowledge sharing and intrinsically motivation is dependent upon the different individual abilities of employees, for example, personality [90], objective orientation [91], and commitment [28]. Bock and Kim [92] pointed out that employees’ desire for relations’ enhancement with other colleagues (for example, a feeling of relatedness) and adding to the organization (for example, a feeling of competency) effectively affected their behavior towards knowledge sharing. Correspondingly, Kankanhalli et al. [93] verified that the increase of the feeling of self-efficacy and satisfaction in aiding other people meaningfully affected individuals’ commitment to knowledge sharing through the utilization of an electronic knowledge source. In recent research, Martin-perez and Martin-cruz [51] demonstrate that intrinsic rewards, for example, the enhancement of self-identification and self-fulfillment, positively affected employees’ enthusiasm in sharing knowledge. From an administrative point of view, a substantial dependence on employees’ intrinsic motivation to share knowledge is nevertheless very indeterminate and precarious.

Wole and Chinazom [25] noticed, “Intrinsically motivated employees do not usually work to the benefit of their supervisors. Instead, workers must be motivated to perform in an organized and objective situated way.” Thus, negative results, for example, infinite stalling, will happen if workers are overseen just via intrinsic motivations [94].

Wilkesmann et al. [95] caution that one ought not to expect that employees should share normally what they know with their colleagues, particularly the expenses and hazards related to the behavior of sharing. Based on Connolly et al. [96] and Husted [97] covering up or retaining, instead of sharing, knowledge is regularly an increasingly supported selection of workers because of personal
responsibility. Based on the prior evidence, we hypothesize the following:

H9: intrinsic motivation plays a mediating role in the relationship between intrinsic rewards for creativity and knowledge sharing

3. Method

3.1. Samples and Procedures. We conducted our study in four Kabul public universities in Afghanistan. Data were gathered from subordinates and their immediate supervisors. Two reasons led us to collect our data from these four universities. First, we need to have a data set including from diverse types of universities. This will ensure the generalizability of the study results. Second, these four universities initiated to emphasize team-level work efforts, organization learning, and knowledge sharing, due to the increasing ability of employees in group working and knowledge sharing and skills with each other. A convenience sampling approach was utilized to guarantee representation inside every one of the demographic characteristics of significance to this research (i.e., age, gender, position, and work experience). The data were gathered during work hours by one of the researchers. Subordinates evaluated intrinsic rewards for creativity, job autonomy, and proactive personality, and immediate supervisors assessed their subordinates’ creativity. The scales were translated from English to Persian according to [98] back-translation procedure.

A total of 400 subordinate-supervisor pair questionnaires were returned (80 percent response rate). Due to missing data, the last usable sample included 395 subordinate-supervisor matched questionnaires. Twenty-four percent of the employees were women. Their average age was 2.3 years (SD = 0.9), and the average work experience was 3.0 years (SD = 1.8). Of the 50 immediate supervisors, 8.0 percent were women. Their average age was 3.5 years (SD = 0.7), and the average working experience was 5.0 years (SD = 1.5). The participants were from different positions containing junior assistant, senior assistant, assistant professor, associate professor, and professor.

3.2. Measures. The variables in the current research were measured on a five-point Likert scale (1 = strongly disagree and 5 = strongly agree).

3.3. Intrinsic Rewards for Creativity. We measured intrinsic rewards for creativity utilizing 7 items (α = 0.91) developed by Baer and Frese [99]. Sample items include “When I perform creatively, I feel an increased sense of self-confidence,” “Creative performance is beneficial for my personal growth,” and “I feel self-achievement when I suggest innovative ideas.”

3.4. Intrinsic Motivation. We measured intrinsic motivation utilizing 4-items (α = 0.87) developed by Malik et al. [12]. This scale was constructed based on the items from Yoon and Choi [55], Deci and Ryan [100], and Baer and Frese [99]. Sample items comprise “I feel satisfaction when I perform creatively” and “I feel a sense of achievement when I suggest new task ideas”.

3.5. Knowledge Sharing. We assessed knowledge sharing using 10-item (α = 0.87) developed by Vries et al. [101] and used by Dysvik [32]. Sample items include “I regularly inform my colleagues of what I am working on” and “When a colleague is good at something, I ask him/her to teach me.”

3.6. Employee Creativity. We assessed employee creativity utilizing 13-item (α = 0.88) developed by Zhou and George’s [102]. Sample items included “suggesting new ways to achieve goals or objectives” and “Comes up with new and practical ideas to improve performance.”

3.7. Control Variables. We controlled for gender, age, work experience, and position consistent with previous research (e.g., [1, 12, 14, 55, 103]).

4. Results

To test the distinctiveness of the variables used in the model, we conducted a confirmatory factor analysis to investigate the distinctiveness of intrinsic rewards for creativity, intrinsic motivation, knowledge sharing, and employee creativity utilizing Amos23.0. As displayed in Table 1, the outcomes of our model comparisons revealed that our hypothesized model, which incorporates a four variables’ models, exhibited a generally good fit to the data. The fit indices for our hypothesized model were as per the following: \( \chi^2 (362) = 718, p \leq 0.001, \) comparative fit index (CFI) = 0.91, Tucker Lewis Index (TLI) = 0.90, and root mean square error of approximation (RMSEA) = 0.05. To test whether the intrinsic rewards for creativity and employee creativity are diverse constructs, we combined intrinsic rewards for creativity and employee creativity in a three-factor model. Intrinsic rewards for creativity, employee creativity, and intrinsic motivation were combined in a two-factor model. Lastly, all variables of intrinsic rewards for creativity, employee creativity, intrinsic motivation, and knowledge sharing were combined in a one-factor model (Table 2).

As brief in the chi-square distinction test and multiple indexes (CFI, TLI, and RMSEA), all revealed that the hypothesized model generally demonstrated good fit than any other alternative model by presenting CFI and TLI greater than 0.90 and RMSEA less than 0.08. Finally, our hypothesized model showed that intrinsic rewards for creativity, employee creativity, intrinsic motivation, and knowledge sharing are separate constructs.

4.1. Measurement Model. The factor loading evaluates reached from 0.84 to 0.89 for intrinsic rewards; for intrinsic motivation, from 0.82 to 0.85; for knowledge sharing, from 0.68 to 0.89, for employee creativity, from 0.75 to 0.89. When the study variables have a correlation with each other, in line
with the theoretical foundation, it shows a convergent validity. As displayed in Table 1, the convergent validity was signified by significant loading and high composite reliability [104]. The analysis results showed satisfactory adaptability of the model.

To specify the degree of distinctness for each construct, we examine discriminant validity [105]. Table 3 demonstrates the correlations between study variables, in which square roots of the AVE in each study variable were greater than their correlation. Furthermore, the model discriminant validity was effectively supported. The discriminant validity defining the stated condition is illuminated in Table 3.

We curried out Harman’s one-factor analysis recommended by Podsakoff et al. [106] to test the possibility of common method bias in the current study. Common method bias is a common subject in the behavioral study when similar respondents assess the predictor and outcome variables. To discover this issue, Harman’s one-factor

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<th>Constructs</th>
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<th>Factor loadings</th>
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<th>KMO</th>
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<td>0.813</td>
<td>0.87</td>
<td>0.861 0.50</td>
<td>0.98</td>
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</tr>
<tr>
<td>Employee creativity</td>
<td>ECR1</td>
<td>0.841</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>ECR2</td>
<td>0.772</td>
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<tr>
<td></td>
<td>ECR3</td>
<td>0.757</td>
<td></td>
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<tr>
<td></td>
<td>ECR4</td>
<td>0.818</td>
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<tr>
<td></td>
<td>ECR5</td>
<td>0.823</td>
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<td></td>
<td>ECR6</td>
<td>0.841</td>
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<td></td>
<td>ECR7</td>
<td>0.877</td>
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<td></td>
<td>ECR8</td>
<td>0.891</td>
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<td></td>
<td>ECR9</td>
<td>0.867</td>
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<td></td>
<td>ECR10</td>
<td>0.750</td>
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<td></td>
<td>ECR11</td>
<td>0.783</td>
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<td></td>
<td>ECR12</td>
<td>0.899</td>
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<tr>
<td></td>
<td>ECR13</td>
<td>0.765</td>
<td>0.88</td>
<td>0.885 0.50</td>
<td>0.98</td>
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</tr>
</tbody>
</table>

Table 2: Comparison of measurement models.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>X²</th>
<th>Df</th>
<th>CFI</th>
<th>TLI</th>
<th>Change from hypothesized model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypothesized model</td>
<td>Four-four factor model&lt;sup&gt;a&lt;/sup&gt;</td>
<td>718</td>
<td>362</td>
<td>0.91</td>
<td>0.90</td>
<td>0.05</td>
</tr>
<tr>
<td>Model 3</td>
<td>Three-four factor model&lt;sup&gt;b&lt;/sup&gt;</td>
<td>1432</td>
<td>374</td>
<td>0.74</td>
<td>0.72</td>
<td>0.09</td>
</tr>
<tr>
<td>Model 2</td>
<td>Two-four factor model&lt;sup&gt;c&lt;/sup&gt;</td>
<td>2165</td>
<td>376</td>
<td>0.57</td>
<td>0.53</td>
<td>0.12</td>
</tr>
<tr>
<td>Model 1</td>
<td>One-four factor model&lt;sup&gt;d&lt;/sup&gt;</td>
<td>2484</td>
<td>377</td>
<td>0.49</td>
<td>0.45</td>
<td>0.13</td>
</tr>
</tbody>
</table>

<sup>a</sup>Four factors: intrinsic rewards for creativity, employee creativity, intrinsic motivation, and knowledge sharing.
<sup>b</sup>Three factors: intrinsic rewards for creativity combined; employee creativity, intrinsic motivation, and knowledge sharing.
<sup>c</sup>Two factors: intrinsic rewards for creativity, intrinsic motivation, and knowledge sharing combined with employee creativity.
<sup>d</sup>One factor: intrinsic rewards for creativity and intrinsic motivation; knowledge sharing and employee creativity combine.
analysis was employed. In this analysis, the study variables are included as a principal component factor. The outcomes displayed four factors in the model with the highest co-variance illuminated by one factor of 31.72%, which is below the 50% recommended. Thus, common method bias was not a problem. As displayed in Table 1, the reliability of all item scales was greater than 0.70 and met the suggested levels of reliability.

5. Hypothesis Testing

5.1. Main Effects. In Hypothesis 1, we suggested the direct effects of intrinsic rewards for creativity on employee creativity. This hypothesis was supported, and intrinsic rewards for creativity were significantly associated with employee creativity \( \beta = 0.58, p \leq 0.001 \).

In Hypotheses 2 and 3, we suggested that the intrinsic reward for creativity would be positively associated with knowledge sharing and intrinsic motivation. These hypotheses were supported, and intrinsic rewards for creativity were significantly associated with knowledge sharing \( \beta = 0.29, p \leq 0.001 \) and intrinsic motivation \( \beta = 0.47, p \leq 0.001 \).

In Hypotheses 4 and 5, we suggested that intrinsic motivation would be positively associated with knowledge sharing and employee creativity. These hypotheses were supported, and intrinsic motivation was significantly associated with knowledge sharing \( \beta = 0.35, p \leq 0.001 \) and employee creativity \( \beta = 0.63, p \leq 0.001 \).

In Hypothesis 6, we suggested that knowledge sharing would be positively associated with employee creativity. This hypothesis was supported, and intrinsic motivation was significantly associated with employee creativity \( \beta = 0.63, p \leq 0.001 \). Table 4 displays the results of a direct hypothesis test.

Furthermore, the coefficients of the model showed that about 54% and 46% of the variance of intrinsic motivation and knowledge sharing were influenced by the employee creativity, and about 58% of the variance of intrinsic rewards was expected by the sum of its outcome variables Figure 1.

5.2. Mediating Effect. In Hypotheses 7, 8, and 9, we predicted that intrinsic motivation and knowledge sharing for creativity would mediate the relationship between intrinsic rewards for creativity and employee creativity, as well as intrinsic motivation for creativity would mediate the relationship between intrinsic rewards for creativity and knowledge sharing. The mediation hypothesis was tested based on the procedure suggested by Mathieu and Taylor [107].

In the first step, with respect to the direct influence of predicting variables on the outcome, all predicting variables had a positive effect on the outcome variables, as reported earlier in Table 4. In the second step, with respect to the influence of the independent variables on the outcome, intrinsic rewards for creativity were significantly associated with intrinsic motivation and knowledge sharing \( \beta = 0.47, p \leq 0.001 \) and \( \beta = 0.29, p \leq 0.001 \). In the third step, with respect to the influence of mediators’ variables on the outcome, intrinsic motivation and knowledge sharing were a significant predictor of employee creativity \( \beta = 0.53, p \leq 0.001 \) and \( \beta = 0.63, p \leq 0.001 \). However, intrinsic motivation was also a significant predictor of knowledge sharing \( \beta = 0.35, p \leq 0.001 \).

In the fourth step, we examined to find whether the impact of the predictor variables on the outcome would vanish with the introduction of mediators or not. The results established that the impacts of predictor variables were significant, whereas intrinsic motivation and knowledge sharing on creativity were a significant predictor of employee creativity, as well as intrinsic motivation was a significant predictor of knowledge sharing. Table 5 shows the mediation analysis results.

The four-step analysis findings specify that the direct effect of intrinsic rewards for creativity on employee creativity was partially mediated by intrinsic motivation and knowledge sharing for creativity. Moreover, in the case of intrinsic rewards for creativity, although intrinsic rewards have a direct effect on knowledge sharing, intrinsic rewards were also significantly associated with intrinsic motivation, which, in turn, had a significant effect on knowledge sharing. This relational pattern determines that intrinsic motivation to creativity could also partially mediates in the relationship between intrinsic rewards for creativity and knowledge sharing [107]. Therefore, the results supported Hypotheses 7, 8, and 9.

6. Discussion

This study examined the effect of intrinsic reward for creativity on knowledge sharing and intrinsic task motivation and further explored whether knowledge sharing and
intrinsic motivation play a mediating role in the relationship between intrinsic reward for creativity and employee creativity. Furthermore, the study explored the linkage between intrinsic rewards and knowledge sharing by concentrating on intrinsic motivation as an intermediate mechanism. The present study endeavored to expand the public organization literature, and it is the first to build and examine the linkage between intrinsic rewards for creativity and employee creativity in Kabul public universities.

First, the findings of this study, as opposite to the prior studies (e.g., [55, 108, 109]), revealed the positive association between intrinsic rewards for creativity and employee creativity. The results also propose that intrinsic rewards for creativity foster employee creativity and develop a creative workplace environment. With the intention of best proposing rising competition in public universities, creative employees are wanted to have a continued competitive skill [41]. It is essential for the organizational manager to have a detailed consciousness and knowledge of the linkage among intrinsic rewards for creativity and employee creativity. Thus, public university managers need to make a more attractive work environment by using intrinsic rewards for creativity since this is the one way that managers can grow and increase employees’ creative skills. Intrinsic rewards for creativity provide employees as a stimulus in a work setting to encourage them to be more creative. Furthermore,
intrinsic rewards for creativity increase employees’ self-achievement and give them the freedom to increase their skills and in turn their creative ability in the workplace environment. These skills should improve the employees’ observational and practical skills to go for challenges and provide quality services in public universities.

Second, intrinsic motivation mediates the relationship between the intrinsic reward provided by the activity itself and the organization and the employee creativity exhibited by employees. The results propose that employees should have intrinsic aspirations and self-confidence in their abilities and support their self-determination to provide creative results. In addition, the findings propose that an employee shows creative activity in his/her behavior because of several rezones, such as positive liking, which, thus, creates continued emotional involvement and a more prominent time promise to job [88], and empowers self-efficacy and confidence, which enables employees to endure with challenging, confused, and new jobs [89]. A possible clarification for mediating the role of employee motivation is the inherent desire of an individual to be creative, believed by their abilities and knowledge. Moreover, our findings suggest that an employee displays creative activities when he senses empowerment, admiration, autonomy, importance, and competence. Regarding this, managers in public universities need to know that creativity is one approach for their university to reach and endure an employee’s competitive ability, and it is essential for them to study more about the links that might be present among intrinsic rewards for creativity, intrinsic motivation, and employee creativity. Therefore, it recommends that public universities have to make further efforts to motivate their employees and provide them self-confidence to increase their creative abilities. Furthermore, by motivating employees through making attractive activates, universities could aid their employees to gain the creative abilities required by enhancing their confidence and their involvement in creative activates, to efficiently perform creative tasks.

Third, we found that knowledge sharing mediated the effect of intrinsic rewards on demonstrating a willingness to generate novel ideas or affect employees’ work outcomes, which prompts creativity. Our outcome provided evidence on the linkage between intrinsic rewards and employee creativity via knowledge sharing, since when the employee feeling enjoyment in the workplace, it means he/she motivates intrinsically and refers to take part in an activity benefitting its own, out of conspiracy, or for the joy and fulfillment got from the experience. Moreover, an employee with high self-confidence in their capacity to give profitable knowledge is sure to achieve clear tasks. Knowledge self-efficacy is normally shown in individuals trusting that their knowledge may aid to resolve work-related issues, thus, in turn, increasing employee creativity. As employee creativity is supported by sharing knowledge, our findings further discovered the idea that employee views of intrinsic rewards for creativity expect an important enhancement in employee creativity when employees share their knowledge with colleagues. The results suggest that when an employee is stimulated and motivated to share knowledge by intrinsic rewards, his/her favorite to insert among colleagues to encourage the cooperative personality of the organization and the importance of organizational objectives aids employees to think and perform creative behavior. Creativity wants workforces to discover aid for their thoughts between colleagues, associate in teams, comprehend group essential forces, and link with others. Creativity is not just about creating constructive results for issues and producing valuable and new thoughts, but it is also about embodying thoughts into certainties and constructing them as part of the organizational development. Realizing thoughts required aid from teams, groups, and administration.

Finally, intrinsic motivation mediates the relationship between intrinsic rewards and knowledge sharing. Intrinsic rewards stimulate employees to communicate easily, what their colleagues, in addition, inspire and satisfy them to share knowledge with their colleagues within the organization. Intrinsic rewards provide independence, freedom, and self-determination to employees through emphasizing the importance and value of work roles. Intrinsic rewards inspire the intellectual aptitude and skills of employees and stimulate them to generate opportunities, which meaningfully influence their work roles and arise from the employee level of collaboration. Our findings propose that the employees share knowledge with the colleagues, while they motivated intrinsically due to knowledge sharing, is assumed as an inherently motivating behavior, as it can be able to satisfy individuals’ psychological and basic needs for relatedness “a social action with collaborators,” autonomy “decide what to share and whom to share with,” and competency “increasing one’s self-efficacy.” Moreover, our findings recommend that an employee needs a solid sense of self-achievement to continue knowledge sharing with their colleagues.

7. Conclusion
The results have shown that the relationship between intrinsic rewards for creativity and knowledge sharing is mediated by intrinsic task motivation. The current research contributes to the employee creativity literature by empirically examining the mediating role of knowledge sharing and intrinsic motivation in the relationship between intrinsic rewards for creativity and employee creativity in the one hand and the mediating role of intrinsic motivation in the relationship between intrinsic rewards for creativity and employee creativity in other.

Considering the positive effects of intrinsic rewards on employees’ creativity, managers may need to pay more attention to managing factors that affect employees’ creativity. Furthermore, it is critical for managers to have a more profound comprehension of the relation, which exists between intrinsic rewards and employee creativity. Thus, it can be proposed that public university managers need to make an environment that motivates and encourages employees to provide a novel idea and adopt a culture, which pursues employees to share knowledge with their colleagues and intrinsic rewards as a supporter of employee’s basic needs such as relatedness, autonomy, and competence to establish
exploringsituationalindicators,whichcanpromptintrinsic
Second, this research adds to the creativity literature by
model and these conceivable proportional connections.
creativity-employee creativity associations placed in our
longitudinal designstoinvestigatetheintrinsicrewardsfor
[?_hus, we strongly suggest future researches that utilize
cannot deduce causality. Invert causality may exist [110].
research. First, we utilized a cross-sectional design, which
Numerous essential assets answered the limitationsofthis
8. Limitations and Recommendations

8. Limitations and Recommendations

an enriched linkage with employees. Moreover, managers
should pay more attention, supporting relatedness, auton-
omy, and competence as basic needs are ways of intrinsic
motivation, and a recommendation might be to stimulate
sharing knowledge gathering, encouraging connection, and
learning. According to Amabile [87], intrinsically motivated
employees will probably have more concern in learning and
empowering to create intellectual flexibility, a readiness to go
from insolvent, and receptiveness to complicate nature,
which finally prompts increments in creativity. Further-
more, intrinsic motivation empowers self-efficacy and
confidence, which enables employees to endure, stimulating,
confused, and new jobs.

To worry about the uncovering of the propriety infor-
mation, employees mostly do not have the interest to share
knowledge with their peers or colleagues. Thus, a system is
required while communicating with different employees of
the organization and exchanges must occur on the partic-
ulars of the knowledge, which have to be apportioned. In
addition, meetings must be carried out on the significance
of sharing knowledge where such behavior is stimulated and
supported, and managers themselves need to approach to
make a conceivable procedure of knowledge sharing.

Therefore, managers can use intrinsic rewards as the best
way for improving the creative skills of their employees and
thus create viable and effective answers for their issues. Our
results revealed that intrinsic rewards motivate employees
intrinsically and encourage them to share knowledge with
their colleagues since knowledge sharing can help an em-
ployee to solve job-related problems and increase work
efficiency, which promotes creativity.

Since teaching is a process that requires new knowledge
and skills for employees, it would be essential to acquire
confidence for creating new ideas. Knowledge sharing oc-
curs when an individual is quick to take part in knowledge
gathering and knowledge giving for expanding new ideas.
Thus, managers should make a conducive environment,
which encourages and stimulates employees to share
knowledge with their colleagues, since knowledge sharing
activates creative efforts between employees and likewise
increases the employee’s level of confidence in creating
creative results. Our findings likewise have shown that
knowledge sharing and intrinsic motivation are both critical
for increasing employee creativity and that they improve
confidence and trust in employee capacity and in their
knowledge to actualize particular tasks.

8. Limitations and Recommendations

8. Limitations and Recommendations

Numerous essential assets answered the limitations of this
research. First, we utilized a cross-sectional design, which
cannot deduce causality. Invert causality may exist [110].
Thus, we strongly suggest future researches that utilize
longitudinal designs to investigate the intrinsic rewards for
creativity-employee creativity associations placed in our
model and these conceivable proportional connections.
Second, this research adds to the creativity literature by
exploring situational indicators, which can prompt intrinsic
rewards related to employee creativity based on the self-
determination theory [89]. In addition, it was repeated the
effects of intrinsic rewards on employee creativity in the less
developed encomia society (i.e., Afghanistan).

Third, by gathering data from multisources, such as
subordinates and their managers, we decrease the possibility
of common method bias. Subordinates reported intrinsic
rewards, intrinsic motivation, and knowledge sharing, and
their creativity rated by their managers. Therefore, in the
current research, worries of response biases and self-gener-
ated validity were diminished. This sample variety enhances
our confidence that the outcomes were not just originated
from individual characteristics of a particular faculty or from
determined desires into a specific organization [111]. Hence,
the characteristics of our data expanded the confidence of the
findings, and these findings may advance the generalizability
of our research, especially in the Asian context. Still, future
studies may consider utilizing a sample from one or a couple
of limited numbers of organizations. Fourth, the sample was
only gathered from an appropriate sample of Kabul public
university in Kabul, Afghanistan. Thus, future researchers
might consider studying the model examined in the present
study in other tertiary institutions such as private universities
or industry and organizations, for instance, airlines, travel
agencies, call centers, and banks.

Data Availability

Data will be available on request during the review process.
The corresponding author can be mailed at mudassir@ulm.edu.pk.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

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