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The Mediating Role of Job Satisfaction between Leadership Style and Performance of Academic Staff

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Abstract -Leadership style (LS) has not been effectively examined in educational institution in developing countries. The purpose of this study is to examine the effect of LS on academic staff performance (ASP) in Iraq. Based on the review, the study proposed that LS and its components; transformational leadership (TFL) and transactional leadership (TSL) will affect ASP. In addition, the study proposed job satisfaction (JS) as a mediator between LS, TFL, TSL, and ASP. Methodology The population of this study is the Iraqi academic staff in Baghdad. A stratified sampling technique was deployed to collect 297 responses from nine universities in Baghdad. The findings showed that LS, TFL and TSL have significant effect on ASP. JS mediated partially the effect of LS, TFL and TSL on ASP. Decision makers are advised to implement the TFL and increase the JS among academic staff.

**Keywords:** Leadership Style; Academic Staff Performance; Job satisfaction; Transformational leadership; Higher education.

# I. INTRODUCTION

Education is the most important strategy for countries to achieve economic and prosperous life for citizens. The importance of education increases in the university level because the graduates are the future workforce of the country and their level of knowledge has essential role in all the economic and social aspects of a society [43]. A key determinant to the performance of graduates and universities as well as the nation, is the performance of the academic staff who transfer the knowledge to the graduates and contribute to the nations' economic and social prosperities [39].

ASP is important for the performance of universities. However, it is more critical for the universities in developing countries due to the need to improve the educational level as well as the social and economic activities in these countries[51]. Against this view, most of previous studies focused on the ASP in developed countries such as in United Kingdom (UK), US, and western countries [25,26,52,60] and few studies were conducted in developing countries such as Iraq [66,67]. Studies in developing countries focused on describing the population and conducted simple statistical analysis to identify the mean score value. In addition, the sample size of previous studies is limited and small[65].

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Previous studies also focused on the performance of employees in business organization which they are different from

those in the educational institutions. Since the factors of business organizations differ from those of academic staff at

universities, previous studies indicated that the leadership is an essential factors that affect the performance of employee in

general [18,33,45]. However, the leadership was examined in business organization and few examined this variable in the

context of educational institutions. Thus, there is a need to examine the effect of new styles of leadership such as the TFL

and TSL on the performance of Iraqi academic staff [35].

The higher education in Iraq face many challenges such as employee morale or satisfaction, ranking of universities in the

world and brain drain that bring an effect to the university performance [30]. Here, Iraq is in need for effective academic

staff that are able to improve the performance of universities and contribute to the prosperity of the country. Therefore,

there is a need to improve the ranks of the Iraqi universities and reduce the migration of students and academic staff to

overseas universities. Iraqi public universities are among the lowest rank compared with other Arab countries [63].

Academic staff are migrating to other countries seeking better job opportunities. Iraqi Ministry of Higher Education

estimated the number of professors who left the country only between February and August in 2006 to account to 3250

professors. Recent publication also showed that the rate of academic staff migration is in increasing trend[24,46,53,37,38].

Similarly, the outbound Iraqi degree students increased by 428% between 2005 and 2016, from 5,493 to 28,993-degree

students [28,36,58,59].

Among the issues that contributed to the weak performance of academic staff is administrative authority is

overcentralized, new students are poorly prepared, and the teaching staff is inadequately trained, which affected the job

performance of academic staff [27]. Furthermore, other issues that have potential effect on the academic staff performance

is the weak leadership of the educational institutions [13]. In addition, previous studies showed that the studies related to

LS and JS are lacking in the higher education sector especially in the context of Arab world and Iraq [30]. Despite all these

issues, there is a lack of studies that examine the performance of Iraqi academic staff [55].

Accordingly, this study aims to investigate the effect of leadership on the performance of academic staff at Iraqi public

university. In addition, the study aims to investigate the mediating role of JS. The reminder of this paper discusses the

literature review and conceptual model development as well as the research methodology, findings, and conclusion.

II. CONCEPTUAL MODEL AND HYPOTHESES DEVELOPMENT

A. Theoretical framework

Leadership theories have emerged over the years starting from the theory of the great man and recently; theories such as

the transformational and transactional theories. TFL is a relationship based theories in which the leader attempt to motivate

the followers to achieve their objectives and the objectives of the organization. On the other hand, the TSL is based on

transaction. Employees work hard to achieve their tasks so that they can be paid for their effort [14,15,19]. Despite the

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wide use of the theories in business context, the theories have not been examined in the context of educational institutions

in developing countries.

Few researchers have used the theory of TFL to examine the performance of academic staff. For example, Hussain et al.

(2014) [40] deployed the theory to examine the ASP in Iraq. The findings indicated that the theory can explain the

variation in ASP. Vatankhah et al. (2017) [61]used the theory to examine the performance of teaching staff at teaching

hospital and found the theory is able to predict the ASP.

Several researchers are of the opinion that TFL has little impact on performance as compared to TSL[3,41]. Many

researchers depicted that TFL has greater impact on employee performance as compared to TSL[20]. Accordingly, to

solve this contradiction in the previous studies especially in the context of academic staff in Iraq, this study deploys the

theory of TSL and TFL and examines and compares their effects on the ASP in Iraq.

Along the leadership theories, the study also deploys the Herzberg's two-factor theory. This theory is deployed in this

study because JS is considered in this study as a mediating variable that mediates the effect of leadership on performance

of academic staff. The theory is widely used to explain the JS and has been effectively explaining the variation in

JS[12,29,34,56]. In higher education sector, De Vito, Brown, Bannister, Cianci, and Mujtaba, (2018) [21] examined the

applicability of the theory using a qualitative approach. The authors interviewed six academic staff and found that the

theory is partially able to explain the JS and its relationship with performance of academic staff. In this study, the two

factors theory is deployed to explain the mediating effect of JS among the variables of this study.

B. Performance of Academic Staff

The importance of performance is increasing due to its ability to increase the effectiveness and efficiency of organizations.

The high job performance enables different organizations to achieve their objectives and ensure that these organizations

survive and thrive. Due to the increasing competition among organizations, both educational and services, it has become

imperative for the organizations to improve their performance and focus on their human component to ensure excellence

and prosperity [6,8,42]. The job performance of employees is important in all organizations, but its importance increases

in educational organizations in general and in universities in particular, because the pivotal role played by the academic

staff of the universities in creating and nurturing future generations that are capable of advancing the country and the

society. Thus, academic staff has important role and contributes to the society in term of teaching and conducting scientific

research that increases the efficiency of the university and society [4,22,23]. Given the importance of the performance of

academic staff, this study is devoted to examine this variable at Iraq public universities.

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### III. CONCEPTUAL FRAMEWORK OF THE STUDY

Based on the theory of leadership and two factor theory as well as the existing models, this study proposes that the LS will affect directly and positively the performance of academic staff in Iraq. Further, the study proposes that the JS will mediate the effect of LS on the performance of academic staff in Iraq. Figure 1 shows the conceptual model of this study.

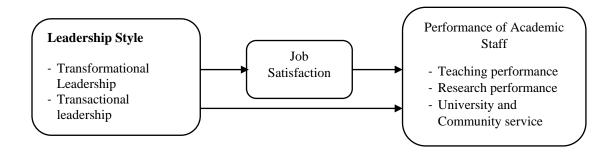


Figure 1: Conceptual Framework

#### A. Leadership Style and Performance of Academic Staff

LS have significant and substantial effects on the performance of individual and organizations [31]. Effective LS has always played a positive role in increasing the performance of employees while the ineffective LS led to negative performance of employees [1]. Iqbal et al. (2015) [31] investigated the effect of LS on the performance of employees in business organization and found that LS has a significant effect on performance of employees. Khan and Nawaz (2016)[32] reviewed the literature and concluded that the effect of LS on the performance of employees is significant. Similarly, Memon (2014)[50] proposed that the LS has a significant effect on employee performance. LiLin (2018) [77] found that the LS has positive effect on the performance of academic staff in China. Thus, the following is hypothesized:

H1: Leadership Style has a significant positive effect on the academic staff performancein Iraq.

#### Transformational leadership and Academic Staff Performance

Cheung and Wong (2011) found that TFL has a positive effect on performance. Similarly, a positive effect of TFL was found in the study of Wang, Tsai and Tsai (2014) in China. In academic context, the effect of TFL on ASP was investigated in few studies. In Iraq, Hussain et al. (2014) [40] found that TFL has a significant effect on the JS of Iraqi ASP. Vatankhah et al. [61] (2017) found that TFL has a significant effect on the ASP in Iran. Thus, it is hypothesized:

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H2: Transformational leadership has a positive significant effect on the Academic Staff Performancein Iraq.

Transactional leadershipand Academic Staff Performance

Sundi (2013) [57] examined the effect of TSL on ASP in Indonesia. The findings indicated that there is a significant effect

of TSL on ASP. On the other hand, some researchers found insignificant effect of TSL on ASP. In UAE, Cedwyn

Fernandes and Raed Awamleh, (2004) [20] examine dthe effect of TSL effect on performance of employees working in the

business sector and found the effect is insignificant. Accordingly, this study anticipates that the effect of TSL on

performance of academic staff is positive and significant. Thus, the following is hypotheszed:

H3: Transactional leadership has a significant poistive effect on the Academic Staff Performancein Iraq.

B. Job Satisfaction as mediator

JS is defined as "how people feel about their jobs and their different aspects" [78] .Few studies focused on the role of JS

and its mechanism in developing countries [5]. Few studies examined the mediating effect of JS between LS and ASP.

Wulandari, Mangundjaya and Utoyo (2015)[64] found that the effect of LS on organizational commitment is mediated by

JS. Romle (2015)[54] also found that the effect of LS on organizational commitment is mediated by JS in Malaysia. Khan,

Rao, Usman, and Afzal (2017) [44] found that JS mediated the effect of TFL on organizational commitment among SMEs

in Pakistan. The JS also mediated the effect of TFL on quality of work life among accountant in Malaysia [62] .JS is one

of the issue that face the academic staff in Iraq. This study proposes that the JS will have a mediating role between the LS

and the ASP in Iraqi public universities. Accordingly, the following is hypothesized:

H4: Job Satisfaction mediates the effect of Leadership style on Academic Staff Performance in Iraq.

H5: Job Satisfaction mediates the effect of Transformational Leadership on Academic Staff Performance in Iraq.

H6: Job Satisfaction mediates the effect of Transactional Leadership on Academic Staff Performance in Iraq.

IV. RESEARCH METHODOLOGY

The population of this study is the academic staff in iraqi public universities. However, due to time and cost consideration,

this study is focusing only on the public universities in Baghdad, the capital of Iraq. Based on the statistic of the MHESR,

there are nine public universities out of 35 are located in Baghdad and these universities have more than 43% of academic

staff. This makes the population of this study 14, 690 academic staff working in the Iraqi public universities in Bagdad.

Stratified random sampling was deployed in this study due the differences in population of universities. The study collects

data using a questionnaire.

The measurement was adopted from previous studies, translated and validated by experts. The measurement TFL (21

items) was adopted from Jyoti and Dev (2015) [40]. In addition, the measurement of TSL (eight items) was adopted from

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Masa'deh, Yousef Obeidat, Shawqi Zyod and Hamdi Gharaibed, (2015)[47] . The measurement were also taken from the

MLQ [16]. For JS, the measurement consists of six items and it was adopted from Mawoli and Babandako (2011) [49].

The ASP consists of three dimensions. The first dimension is the teaching performance measured using ten items adopted

from Mawoli and Babandako (2011) [49]. The second measurement is the research performance and it consists of twelve

items and it was adopted from Mawoli and Babandako (2011) [49]. Lastly, the community and university service consists

of eleven items and it was adopted from Masron, Ahmad and Rahim (2012) [48].

A total of 374 questionnaire were distributed on the nine universities. After follow ups, a total of 324 responses were

collected making the response rate of 86.6%. However, the data was examined for missing values and outliers. This has

resulted in reduction of 27 responses making the complete and usable responses 297. These responses are sufficient for the

use of AMOS [7,8,9,10]. The data is normally distributed and no multicollinearity issues among the variables. In addition,

none response bias was examined. The early responses are not different from the late responses.

V. FINDINGS

This section discusses the profile of the respondents as well as the analysis of the data using AMOS version 24.0.

A. Profile of respondents

A total of 297 respondents have participated in this study. A total of 70% of the respondents are males older than 30 years

(94.5%) and holders of PhD degree (65%) while those holder of master degree accounted to 35%. The majority of the

respondents are lecturers with 79.1% have experience of more than 5 years.

B. Measurement Model

The confirmatory factor analysis (CFA) was conducted on all the constructs. Following the suggestions of Awang (2014)

[79], a pooled CFA was conducted. Several items were deleted to improve the indices. Figure 2 shows the pooled CFA of

LS. It shows that all the indices were acceptable except for the good fitness index (GFI) which is less than 0.90. However,

Hair et al. (2010) [80] suggested that if at least three of the indices are acceptable, researchers are permitted to proceed

with the analysis. In this study five of the indices were accepted.

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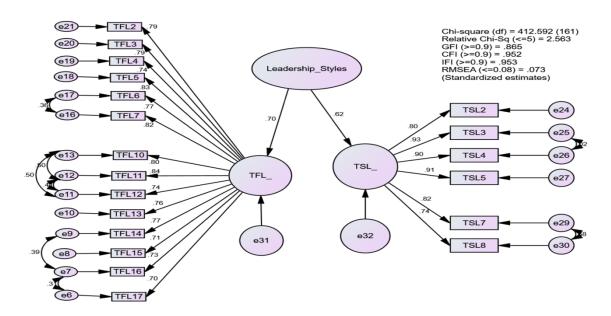


Figure 2: CFA of Leadership Style

After finalizing the CFA for all the constructs, the measurement model was conducted. The purpose of conducting the measurement model is to assess the factor loading, reliability, convergent validity and the discriminant validity. Factor loading of the items were greater than the suggested value of 0.60 [80]. For the reliability, the Cronbach's Alpha (CA) and Composite Reliability (CR) for all the variables were calculated and as shown in Table 1, all the CA and CR are greater than 0.70. Convergent validity is achieved if the average variance extracted (AVE) is greater than 0.50. The findings in Table 1 shows that the AVE for all variables are greater than 0.50.

**Table 1: Results of Measurement Model** 

	CA	CR	AVE	TFL	TSL	JS	ASP
TFL	0.781	0.761	0.522	0.723			
TSL	0.802	0.799	0.599	0.581	0.706		
JS	0.879	0.882	0.604	0.469	0.421	0.783	
ASP	0.831	0.844	0.646	0.565	0.385	0.468	0.899

Note: TFL: Transformational leadership, TSL: transactional leadership, JS: Job satisfaction, ASP: academic staff performance

#### C. Hypotheses Testing

The hypotheses are tested based on the outcome of the structural model. The hypotheses include the direct effect of LS on performance of academic staff. It also includes the mediating effect of JS. The direct effect hypotheses is given in Table 2.

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Table 2: The Effect of LS on ASP

			Estimate	S.E.	C.R.	P
ASP	<	LS	.411	.088	4.519	***
ASP	<	TFL	.325	.060	4.722	***
ASP	<	TSL	.214	.043	4.637	.008

It shows that the effect of leadership style (LS) on academic staff performance (ASP) is significant (Estimate =.411, P<.000). Thus, H1 is supported. For the second hypothesis, the effect of transformational leadership (TFL) is positive and significant (Estimate=.325, P<.000). Thus, H2 is supported. For H3, the effect of transactional leadership (TSL) on performance is positive and significant (estimate=.214, P=.008). the direct effect model managed to explain 51% of the variation in academic staff performance. The second type of hypotheses is the mediating effect. The results of mediating effect is shown in Table 3.

Table 3: Mediating Effect of JS between LS and ASP

			Estimate	S.E.	C.R.	P
ASP	<	LS	.275	.058	3.717	***
ASP	<	TFL	.148	.047	3.054	.002
ASP	<	TSL	.101	.070	4.330	***
JS	<	LS	.475	.128	3.717	***
JS	<	TFL	.448	.147	3.054	.002
JS	<	TSL	.461	.107	4.330	***
ASP	<	JS	.189	.043	4.402	***

To examine the mediating effect, Hair et al. (2010) [80] and Awang (2014) [79] suggested that the direct effect before entering the mediator should be significant and reduced after entering the mediator. In addition, the indirect effect should be greater than the direct effect. In Table 2, it can be seen that the direct effect of LS on ASP reduced from .411 to .275. Similarly, the direct effect of TFL and TSL on ASP were reduced. However, all the direct effect with mediator included stayed significant. The effect of LS, TFL, and TSL on JS is also significant. In addition, the effect of JS on ASP is significant. This leads to a conclusion that the mediation occurs because the direct effect reduce. However, this mediation is partial because the direct and indirect effect are significant. Accordingly, H4, H5, and H6 are partially supported.

## VI. DISCUSSION

This study investigated the effect of LS on ASP. The findings indicated that LS can predict positively the ASP. This shows that when the management of public universities in Iraq implement the LS, the performance of academic staff will increase. The TFL is more important that the TSL. This is because TFL has higher coefficient. Thus, implementing TFL in

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universities will yield high performance of academic staff. These findings solves the argument among researchers

regarding the suitability of the TFL in educational institution. In the context of this study, both TFL and TSL are

important. However, TFL is more critical for the ASP. These findings are in agreement with the findings of previous

studies. Researchers such as Iqbal et al. (2015) [31], Khan and Nawaz (2016) [32] found that LS has a strong positive

effect on the performance of business and educational employees.

Regarding the findings of TFL and TSL, the study of [30,81,82,] found that TFL has a significant effect on the job

performance of employees. Findings of researchers such as Kalsoom et al. (2018)[41], Advani and Abbas (2015)[2],

Bousbia, Ridic and Jukic (2015) [17] confirmed the importance of the TSL to improve the performance of employees.

The study also examined the mediating effect of JS between LS, TFL, and TSL and ASP. The findings indicates that there

is a partial mediation effect of JS between LS, TFL, TSL and ASP. This indicates that part of the relationship of LS, TFL,

TSL with ASP can be explained through JS. This finding is in line with the findings of previous studies. Wulandari,

Mangundjaya and Utoyo (2015)[64] and Romle (2015) [54] found that JS mediated the effect of LS on organization

commitment. Khan et al. (2017) [44] and (Vianne & Murcia, 2016)[62] indicated that JS has mediated the effect of TFL

on organizational commitment and quality of working life respectively. Accordingly, universities in Iraq are advised to

implement the TFL style of leadership and to increase the JS so that the performance of academic staff will increase and

the rate of migration of staff and students will decrease.

VII. CONCLUSION

This study was conducted to examine the LS and its effect of ASP mediated by JS. The study confirmed the proposed

hypotheses and recommended the decision makers to implement the TFL style of leadership as well as to increase the JS.

The study was limited to public universities in Baghdad. Further studies can include the private and public universities.

The study also included only academic staff thus it is limited to their perception. However, the study deployed the

stratified random sampling which allows the generalization of the findings on the public universities in Iraq. Nevertheless,

future studies are recommended to examine the TFL and TSL in other developing countries. In addition, future studies are

recommended to examine other variables such as the organizational justice, training, and income.

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