O*Net Demands and Resources: Associations with Stress, Burnout, and Engagement

Renata Garcia Prieto Palacios Roji¹ Alicia Stachowski^{2, ©} John Kulas^{1, ©}

Montclair State University University of Wisconsin-Stout

Introduction

Research on the job demands-resources theory (A. B. Babker & Demecouth, 2017) inglights the importance of work characteristics on the experience of motivation and strain, which in turn have an impact on job performance. We extend these perspectives to include challenge and hindrance demands. This study explores how these work experiences empirically relate to different work outcomes. We propose that:

Bypochassis 1: Job characteristics appraised as

Rypothesis 1: Job characteristics appraised as resources will be positively associated with engagement, and negatively associated with stress and burnout.

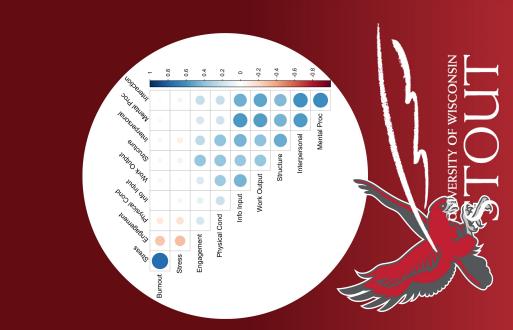
Bypothasis 2: Job characteristics appraised as challenge demands will be positively associated with engagement, and negatively associated with stress and humonit

Rypochesis 3: Job characteristics appraised as hindrance demands will be negatively associated with engagement, and positively associated with stress and burnout.

Methods

We evaluated associations between the antecedents and proximal outcomes of the 0b Demands tesseurces model (A. Bakker et al., 2003). At Bakker & Demeouti, 2017. Demeouti et al., 2004), within the unifying framework of O'Net. Specifically, focusing on the relationship between job characteristics and employee levels of job engagement, stress, and burnout Our sample consists of 568 Prolific Panel participants.

We examined job characteristics based on O*Net's subcategories under work activity and work context.



Burnout ($\alpha=0.61$) and stress ($\alpha=0.76$) were measured using the Copenhagen Psychosocial Questionnaire (Burret at al., 2019), and an overall engagement score was measured using an Is-item measure (Russell et al., 2023) ($\alpha=0.89$). To create this poster, we used posterations version 1.0 (Thorne, 2019).

Results

The average perception that an O*Net job element could be considered a resonner was 3.7% with a standard deviation of 0.48. That it could be considered a challenge was 3.75 with a standard deviation of 0.50. Lastly, the average preception that it could be considered a hindrance was 2.99 with a standard deviation of 0.078.

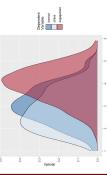


Figure 1. Distributions of focal variables of interest

The figure in the center shows the relationships among resource dimensions (O'Net categories) as well as the three focal outcome variables. Regression analyses reveal that the more a work characteristic is perceived as a resource, the more engaged is the respondent ($R^2 = 15$, $F_{(1250)} = 12.82$, p. c.001). Figure 3. shows the relationships among challenge demands and the three focal outcome variables. The impact of challenge demands to engagement was similar in direction and magnitude to engagement was similar in direction and magnitude to engagement was similar in direction and magnitude to mild effects for both stress ($R^2 = 0.0$, $F_{(1250)} = 0.20$), with mild effects for both stress ($R^2 = 0.0$, $F_{(1250)} = 12.0$, p = 2.95). Figure 3. shows the relationships among hindrance demands and the three focal outcome variables. Regression analyses revealed a marginal sacociation between a work characteristic perceived as a hindrance and lower levels of engagement ($R^2 = 0.6$, $F_{(1250)} = 5.84$, p < 0.00), with similar effects both between being viewed as a hindrance and increased stress ($R^2 = 0.6$, $F_{(1250)} = 3.48$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.48$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.48$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 4.89$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 4.80$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 4.80$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.60$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.60$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.60$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.60$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 3.60$, p < 0.00) and burnout ($R^2 = 0.6$, $F_{(1250)} = 0.00$) and burnout ($R^2 = 0.6$, $F_{(1250)} = 0.00$).