

פסטיבל המחקר השנתי הראשון

בנושא

אנרגיה וקיימות

08.12.2021



Office of the Vice President and Dean
for Research and Development
Ben-Gurion University of the Negev



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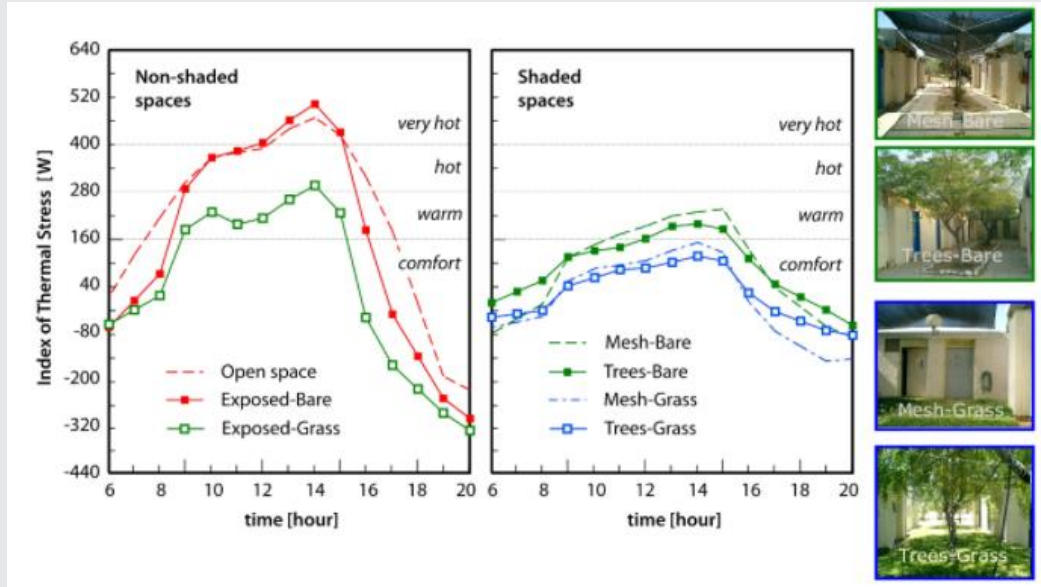


Tali Motzkin, Evyatar Erell and Tal Svoray

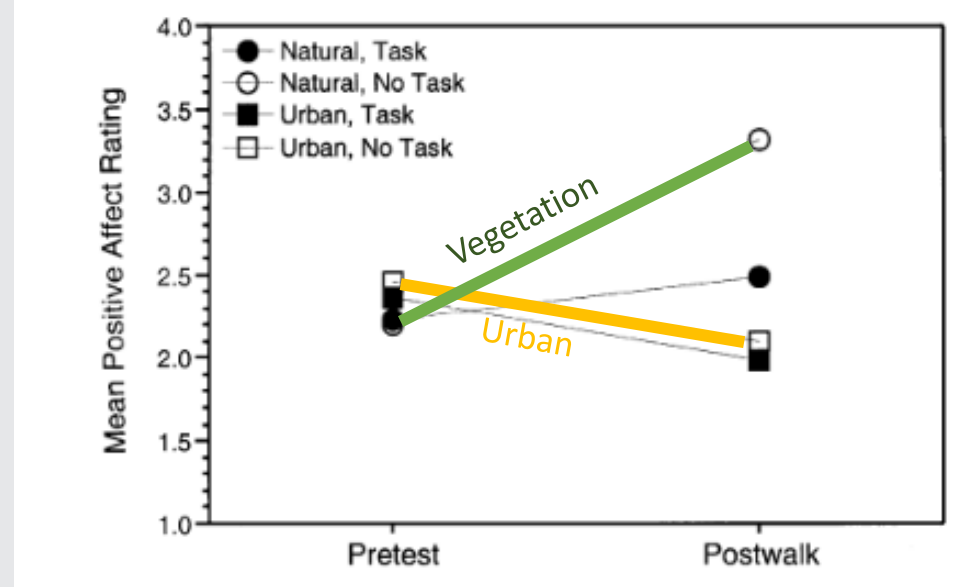
Department of Geography and Environmental Development

The complex effect of vegetation on thermal perception: Real or imaginary?

Physiological



Psychological



(Shashua-Bar, Erell and Pearlmutter, 2011)

(Harting et al, 2003)

Is there a measurable **psychological** benefit of vegetation to reducing **physiological** heat stress?



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Methods

1.

2 places, 30 visitors, 4 methods



Figure 2 – the process of computing the percentage of vegetation from fisheye pictures in ArcGIS PRO.

2.



Figure 3 – the Kestrel heat stress tracker device.



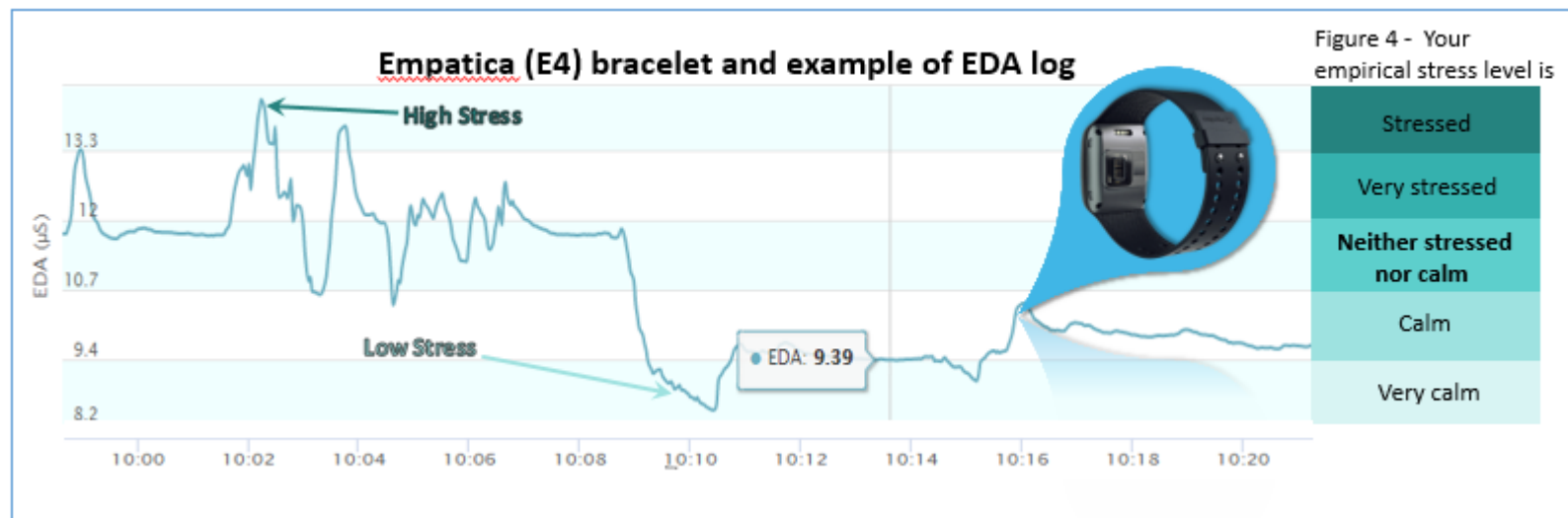
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3.



4.

2.2 האם אתה חושב שהסביבה הנוכחית היא (סמן את התשובה הנכונה ביותר עבורך)?

- ☐ 0 מאוד לא נוחה
- ☐ 1 לא נוחה
- ☐ 2 נייטרלית
- ☐ 3 נוחה
- ☐ 4 מאוד נוחה

Figure 5 - An example of question from the self report questionnaires



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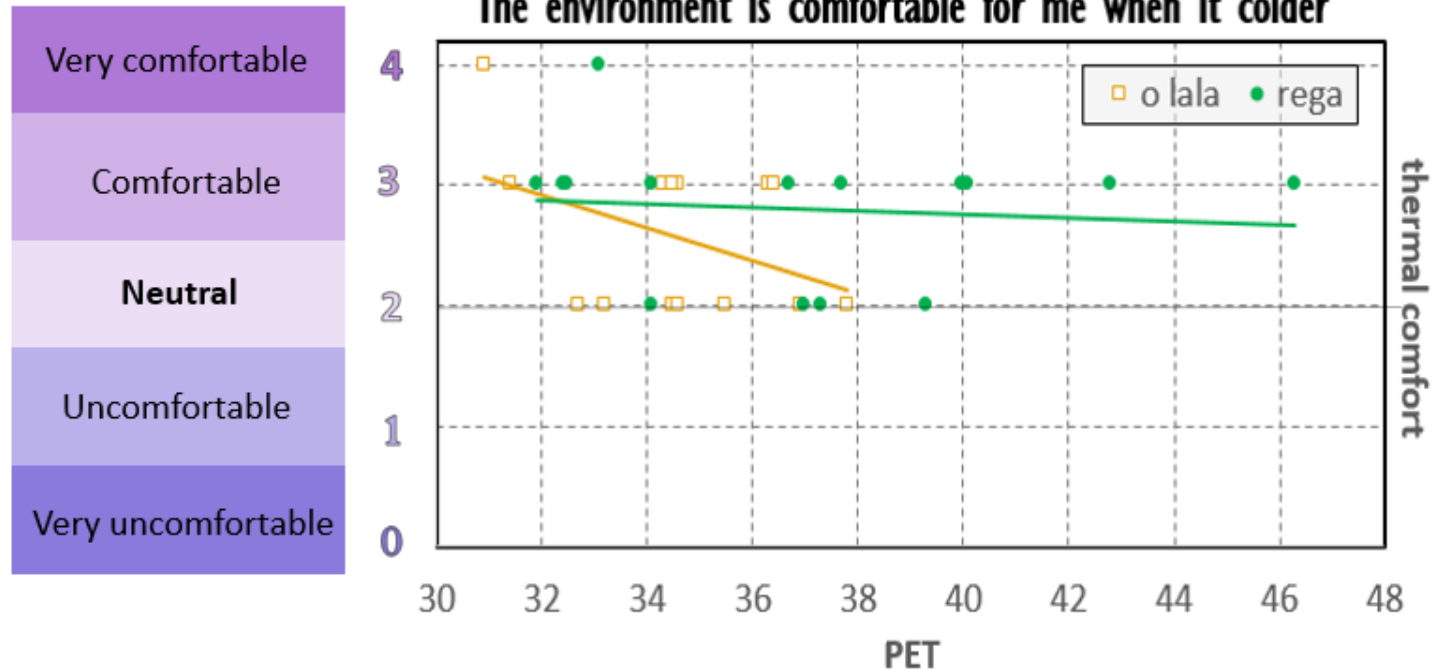


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Results & conclusions

Figure 5 - Do you think the current environment is



Vegetation, may provide psychological relief that offsets heat stress even at high PET values



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Thank You

