



Journal

Visual Cognition >

Volume 27, 2019 - Issue 2

1270

Views | CrossRef citations to date | Altmetric

0

Original Articles

Holistic face processing is penetrable ... depending on the composite design

Paulo Ventura , Isabel Leite, Miguel Ferreira, António Farinha-Fernandes,
João Delgado, Bruno Faustino, ...show all

Pages 171-182 | Received 19 Jan 2019, Accepted 12 Jun 2019, Published online: 05 Jul 2019

 Download citation  <https://doi.org/10.1080/13506285.2019.1633002>

 Full Article Figures & data References Citations Metrics Reprints & Permissions

Get access

ABSTRACT

Holistic processing (HP) of faces is usually measured by the composite effect. While Weston and Perfect [2005. Effects of processing bias on the recognition of composite face halves. *Psychonomic Bulletin & Review*, 12, 1038–1042. doi:10.3758/BF03206440] found that priming at the local level speeded recognition of components of faces, Gao et al. [2011. Priming global and local processing of composite faces: Revisiting the processing-bias effect on face perception. *Attention Perception & Psychophysics*, 73, 1477–1486. doi:10.3758/s13414-011-0109-7] found that only global priming had an effect on HP of faces. The two studies used different versions of the composite task (the partial design, which is considered to be prone on bias, and the complete design). However, the two studies also differed in other respects and it is difficult to know to what extent issues with the partial design contributed to the differing conclusions. In the present study, the HP indexed by the

complete design measure was augmented by global priming. In contrast, no effect was observed in the partial design index. We claim that the partial design index reflects other factors besides HP, including response bias, and conclude that HP can be understood within the context of domain-general attentional processes.

KEYWORDS: [Composite task](#), [holistic face processing](#), [Navon priming](#), [complete design](#), [partial design](#)

Additional information

Funding

The work presented in this manuscript was supported by the Research Center for Psychological Science (CICPSI) at Universidade de Lisboa, Faculdade de Psicologia, Universidade de Lisboa, Lisboa, Portugal.

Acknowledgements

We thank very much Kevin Potter and an anonymous Reviewer for very helpful suggestions and comments.

Disclosure statement

No potential conflict of interest was reported by the authors.



Information for

[Authors](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Cogent OA](#)

Help and info

[Help & contact](#)

[Newsroom](#)

[Commercial services](#)

[All journals](#)

Keep up to date

Register to receive personalised research and resources by email



[Sign me up](#)



[Copyright © 2020 Informa UK Limited](#) [Privacy policy](#) [Cookies](#) [Terms & conditions](#) [Accessibility](#)



Registered in England & Wales No. 3099067
5 Howick Place | London | SW1P 1WG