

## **Do you Know this Celebrity?**

### **Eye Tracking in a Concealed Information Test with Famous Faces**

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The concealed information test (CIT) aims at identifying knowledge that a person wants to hide, by measuring physiological indices during the presentation of known vs. unknown items. Lancry-Dayana et al. (2018) incorporated a short-term memory task into this test, using photos of relatives. In a first experiment ( $N=45$ ), we replicated Lancry-Dayana et al.'s (2018) study using photos of famous faces. A gaze orientation reflex towards familiar faces was first observed, followed by avoidance of these faces. No difference was found between participants asked to perform the memory task only, participants asked to conceal their familiarity with the famous faces, and a countermeasure group. In a second experiment ( $N=30$ ), we tested the robustness of Lancry-Dayana et al.'s countermeasure. We modified the instructions by emphasizing the oculomotor task or giving feedback. Between-group differences in gaze patterns appeared in this experiment, revealing strengths and limitations of this new CIT protocol.