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Do Football Fans of Rival Teams See the Same Football Game Through Different Eyes?

When on the 26th of April, *FC Bayern München* and *Borussia Dortmund* confront each other, a great many football enthusiasts will watch the semi-final of the DFB (German Football Association) cup together. Experience shows that after such a game, fans will remember it differently - that is, in favor of their own team. At what point does this distortion actually begin? Do fans of rival teams in fact see the game differently or does this distortion come later when the fans look back on the game? Researchers at the University of Tübingen, PD Dr Markus Huff, and at the Leibniz-Institut für Wissenmedien (IWM), Prof. Dr. Stephan Schwan, have found an answer to this question with a specifically developed method.

Tübingen, 24 April 2017. Up to now, research has shown that after a game fans have a distorted memory of it in favor of their own team. The question whether the fans in fact see the game differently remains unanswered. In other words, what is more reliable: human perception or memory? To answer this question, Markus Huff's and Stephan Schwan's work groups took the Champions League final game between Bayern München and Borussia Dortmund as an opportunity to examine the perception process of the football fans during the game. "The Champions League final game was a unique opportunity to examine these processes. In an international final, two German teams confronted each other. The confrontations with these two rivals are always extremely emotional as reflected in the media coverage prior to the game," according to Markus Huff.

In a laboratory environment, 58 football fans – 33 for Dortmund and 25 for Bayern – watched the final live, the aim being to examine the entire perception process. While all of the fans were tested for memory after the game, for 21 fans it was possible to record eye movements during the game to pursue the hypothesis whether the fan-based distortion emerges very early, that is, already when watching the game.

The results of this study are clear. The perception processes were the same during the game – the eye-movements of both groups of fans were identical. However, the

fans' memories were biased towards their own team, as their own teams supposedly gained more ball possessions and the opposite team supposedly fewer.

The procedure of this study differs fundamentally from previous research approaches, which investigate the psychological processes almost exclusively in a laboratory. "This is the first study that has examined the perception and memory of authentic fans during a live broadcast, using methods specifically developed for this experiment," according to Markus Huff. The study made it therefore possible, on the one hand, for the process of reception to be captured directly, independent of, for example, subsequent reporting. On the other hand, in this study, it was possible to examine eye movement and memory processes together in order to be able to reach reliable conclusions about the complete process of human information processing.

The study therefore shows that human perception is more reliable than assumed. Even passionately perceived events that are distorted in memory are nevertheless perceived neutrally.

The results of this study have been published recently in the journal "Scientific Reports".

Publications:

Huff, M., Papenmeier, F., Maurer, A. E., Meitz, T. G. K, Garsoffky, B., & Schwan, S. (2017). Fandom biases retrospective judgments not perception. *Scientific Reports*, 7:43083. doi: 10.1038/srep43083

Contacts:

PD Dr. Markus Huff, University of Tübingen, School of Natural Sciences and Mathematics, General Psychology, Telephone +49 7071 29-75612, markus.huff@uni-tuebingen.de

Prof. Dr. Stephan Schwan, Leibniz-Institut für Wissensmedien, Lab: Realistic Depictions, Telephone ++49 7071 979-228, s.schwan@iwm-tuebingen.de

The Leibniz-Institut für Wissenmedien

The Leibniz-Institut für Wissensmedien (IWM) in Tübingen researches how digital technology can be applied to improve knowledge processes. The basic psychological research of approximately 110 scientists is focused on fields of practice such as schools and universities, on knowledge work with digital media, on knowledge-based use of the Internet, and on conveying knowledge in museums. From 2009 to 2016, the

IWM together with the University of Tübingen organized and maintained Germany's first Leibniz ScienceCampus (WCT) on the subject of "Education in Informational Environments" that starting 2017 will be continued as a follow-up project under the title "Cognitive Interfaces".

Contact and further information about the Leibniz-Institut für Wissensmedien:

Dr. Evamarie Blattner, Press and Public Relations Leibniz-Institut für Wissensmedien, Schleichstraße 6, 72076 Tübingen, Tel. 07071/ 979-222, E-Mail: presse@iwm-tuebingen.de

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