

Confidence influences eyewitness memory of crimes

November 14 2016

New University of Liverpool research has found that co-witnesses to a crime can contaminate each other's memory of who committed it, but that the likelihood of this contamination occurring depends upon their confidence.

The research, conducted by Dr Craig Thorley from the University's Institute of Psychology, Health and Society, was inspired by real-life incidents where co-witnesses have discussed a [crime](#), one has made a mistake during these discussions, and the others have then included this mistake in their subsequent police statements.

This effect is known as memory conformity and it has the potential to derail police investigations.

Memory conformity

As Dr Thorley explains, "In 2003, 29 people witnessed the murder of the Swedish foreign minister, Anna Lindh, in a shopping mall. Afterwards these co-witnesses discussed the murder. During these discussions, one incorrectly stated that the murderer wore a camouflage-patterned jacket.

"Several of the witnesses then included this incorrect information in their subsequent police statements. Consequently, the police wasted time and resources looking for someone in a camouflage-pattern jacket. Photographic evidence later revealed the murderer had worn a grey

hooded sweatshirt".

Last year, Dr Thorley conducted the first study examining whether memory conformity can result in eyewitnesses blaming an innocent bystander for a crime. In that earlier study, participant eyewitnesses watched a crime video and then read a statement from a co-witness about the crime that incorrectly blamed an innocent bystander for it. Just over 40% of participants who read this statement also blame the innocent bystander. This specific form of memory conformity became known as blame conformity.

Blame conformity

In his most recent research, published in the latest issue of *Psychology, Crime, and Law*, Dr Thorley conducted two studies examining whether or not eyewitnesses are more likely to engage in blame conformity when incorrect information about a crime comes from a high-confidence, compared to a low-confidence, co-witness and when the eyewitnesses themselves are low, compared to high, in self-confidence.

In both experiments participant eyewitnesses watched a video of a bag theft. They then read a co-witness statement about the theft. For some of these participants, the co-witness incorrectly stated an innocent bystander was the thief. The participant eyewitnesses were then asked who committed the theft.

Confidence

In the first experiment, the incorrect co-witness expressed high or low confidence in her assertion that the innocent bystander was the thief. Participant eyewitnesses who read the incorrect statement by the high-confidence co-witness were at greater risk of engaging in blame

conformity by also blaming the innocent bystander for the crime.

In the second experiment, participants' own self-confidence was assessed. Those who were lower self-confidence were more likely to engage in blame conformity by also blaming the innocent bystander for the crime.

Interestingly, when participant eyewitnesses engaged in blame conformity in both experiments were asked how confident they were that the innocent bystander was the thief, they only expressed moderate levels of confidence. This suggests they had an awareness that their responses were potentially incorrect but engaged in blame conformity regardless.

Eyewitness susceptibility

This is the first research to examine whether or not co-witness confidence and own self-[confidence](#) can predict susceptibility to blame conformity. The findings suggest both play an important role in the effect.

Dr Thorley specialises in teaching people about human memory, memory and law, research methods, and statistics. As part of his ongoing research Dr Thorley has lectured to a range of different audiences including undergraduate students, fellow academics, medical professionals, and senior police officers

More information: Craig Thorley et al, Eyewitness susceptibility to co-witness misinformation is influenced by co-witness confidence and own self-confidence, *Psychology, Crime & Law* (2016). [DOI: 10.1080/1068316X.2016.1258471](https://doi.org/10.1080/1068316X.2016.1258471)

Provided by University of Liverpool

Citation: Confidence influences eyewitness memory of crimes (2016, November 14) retrieved 23 April 2024 from

<https://medicalxpress.com/news/2016-11-confidence-eyewitness-memory-crimes.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.