

Title: Unconscious bias in scientific research (Stuart Ritchie, King's College London)

Unconscious biases can enter at all stages of the scientific process. With examples from the recent “Replication Crisis” in psychology research, this talk will discuss important biases in sampling, measurement, analysis, interpretation, and publication that can distort scientific findings, increase false positive results, and lead to wastage of resources. It will also discuss examples of new attempts from the recent ‘Open Science’ movement that attempt to deal with these biases, such as organised replication, data-sharing, and study pre-registration.