

Professor Richard Battye - Gerald Whitrow Lectureship

Professor Richard Battye has made transformative contributions to cosmology and his work has led to important theoretical advances.

These include the study of potential signatures of cosmic strings, the analysis and interpretation of observations of the Cosmic Microwave Background (CMB) using ground-based and space-borne facilities, theories of modified gravity and how cosmic structure forms in these alternative theories.

In addition, he was one of the first to identify the s_8 tension in late- and early-Universe estimates of the amplitude of matter fluctuations and neutral hydrogen intensity mapping as a cosmological probe, and as an important technique for the Square Kilometre Array Observatory (SKAO).

In addition to his research achievements, Professor Battye has been an influential figure in the international cosmology research community. He co-chaired the Cosmology Working Group of the SKAO and is Associate Director (Science) for the Jodrell Bank Centre for Astrophysics. His record as a PhD supervisor is exceptional, with a number of his students progressing to faculty positions.

Professor Battye is also known as a gifted speaker, combining an engaging style with clarity and depth.