

## Publications Related to this Thesis

- ‘*Probing an excited-state atomic transition using hyperfine quantum-beat spectroscopy*’, **C. G. Wade**, N. Šibalić, J. Keaveney, C. S. Adams, and K. J. Weatherill, *Phys. Rev. A*, **90**, 033424 (2014)
- ‘*Intrinsic optical bistability in a strongly driven Rydberg ensemble*’, N. R. de Melo, **C. G. Wade**, N. Šibalić, J. M. Kondo, C. S. Adams, and K. J. Weatherill, *Phys. Rev. A*, **93**, 063863 (2016)
- ‘*Real-time near-field terahertz imaging with atomic optical fluorescence*’, **C. G. Wade**, N. Šibalić, J. M. Kondo, N. R. de Melo, C. S. Adams, and K. J. Weatherill, *Nature Photonics* **11** 40-43 (2017)
- ‘*A terahertz-driven non-equilibrium phase transition in a room temperature atomic vapour*’, **C. G. Wade**, M. Marcuzzi, E. Levi, J. M. Kondo, I. Lesanovsky, C. S. Adams and K. J. Weatherill, (Accepted for publication in *Nature Communications*)

## About the Author



Chris Wade grew up in the UK, attending St. Bartholomew's School, Newbury, for his secondary education, before studying Natural Sciences at Fitzwilliam College, University of Cambridge where he obtained MSci (Hons) *Experimental and Theoretical Physics* (1<sup>st</sup> class) in 2012. His masters thesis supervised by Dr. Bill Allison, '*Contrast Mechanisms in Scanning Helium Microscopy*', was shortlisted for the UK 'Science, Engineering and Technology (SET) Award'.

In 2012 he started his Ph.D studies at Durham University under the supervision of Dr. Kevin Weatherill and Prof. Charles Adams, during which time the work presented in this thesis was undertaken alongside teaching undergraduate students and engaging with outreach activities. Since completing his Ph.D, Chris Wade has taken up a post-doctoral research position at the University of Oxford with Prof. Ian Walmsley, investigating quantum metrology within the UK's Networked Quantum Information Technology (NQIT) hub.