

Dr. Li's Quantum Optics Lab

Are you interested in observing and exploring concepts that you have learned in Quantum Mechanics and Modern Physics? Do you want to know why atoms are “nonlinear optical materials” and what a “inseparable state” actually looks like when measured? Do you desire to be equipped with a combination of theoretical and experimental knowledge including atomic physics, quantum optics, electronics, laser systems and programming, among many other topics? Come join Dr. Li's quantum optics group, you will have the opportunity to build a very modern yet relatively simple quantum optics laboratory, operate the state-of-the-art instruments, perform exciting experiments, and proudly put your name on an peer-reviewed journal.

In Dr. Li's quantum optics lab, you will use atomic vapor as well as nonlinear optical crystals to generate quantum correlations and entanglement for quantum information, quantum sensing and quantum imaging investigations.

Dr. Li's current position is Assistant Professor of Physics in the Department of Chemistry & Physics at the University of Tennessee at Chattanooga. Dr. Li received his Ph.D. in Physics from the Joint Quantum Institute (JQI), National Institute of Standards and Technology (NIST) and the University of Maryland, College Park. Prior to UTC, Dr. Li was an Associate Research Scientist (promoted from a Postdoctoral Research Associate) in the Institute for Quantum Science and Engineering and the Department of Biological & Agricultural Engineering at Texas A&M University.