

## Biographical Sketch: Scott A. Hughes

Dr. Scott A. Hughes is a Professor of Physics at the Massachusetts Institute of Technology. His research group is a part of MIT's Department of Physics and the MIT Kavli Institute for Astrophysics and Space Research. They study astrophysical systems with extremely strong gravity in which general relativity must be used to accurately model the systems' dynamics. A good portion of their work is on issues relating to gravitational-wave source modeling and gravitational-wave measurement with detectors such as Laser Interferometer Gravitational-Wave Observatory (LIGO) and Laser Interferometer Space Antenna (LISA). A common theme in much of their work is the creative use of general relativistic perturbation theory.

Professor Hughes attended Cornell University as an undergraduate, earning a B.A. in Physics in 1993. He received his Ph.D. in Physics from the California Institute of Technology, working with Professor Kip Thorne. After spending one year working in computational relativity at the University of Illinois, he returned to Caltech as a postdoc and instructor in the Physics Department. Professor Hughes then spent two and half years as a postdoc in the Kavli Institute for Theoretical Physics at the University of California, Santa Barbara, before moving to MIT in January 2003. He was named a 2012 Fellow of the Guggenheim Foundation. He was a Fellow of the American Physical Society (2012); American Physical Society Division of Astrophysics, Member of the Executive Committee (2007 -- 2009); American Physical Society Topical Group on Gravitation, Member of the Executive Committee (2009 -- 2012).