

Vita

Eric R. Hudson

Education and Training

University of Colorado – Boulder	Physics	M.S., 2004
University of Colorado – Boulder	Physics	Ph.D., 2006
Yale University, Postdoctoral Research	Physics	2006-2008

Research and Professional Experience:

2017 -	Professor of Physics and Astronomy, UCLA
2014 - 2017	Associate Professor of Physics and Astronomy, UCLA
2008 - 2014	Assistant Professor of Physics and Astronomy, UCLA
2006 - 2008	Yale “AMO Prize” Postdoctoral Fellow, Yale University

10 Recent Selected Publications:

- 1. Engineering Excited-State Interactions at Ultracold Temperatures**, Micheal Mills, Prateek Puri, Ming Li, Steven J. Schowalter, Alexander Dunning, Christian Schneider, Svetlana Kotochigova, and Eric R. Hudson, *Phys. Rev. Lett.*, **122**, 223401 (2019).
- 2. Reaction blockading in a reaction between an excited atom and a charged molecule at low collision energy**, Prateek Puri, Michael Mills, Ionel Simbotin, John Montgomery, Robin Cote, Christian Schneider, Arthur Suits, and Eric R. Hudson, *Nature Chemistry* **11**, 615 (2019).
- 3. Synthesis of mixed hypermetallic oxide BaOCa⁺ from laser-cooled reagents in an atom-ion hybrid trap**, Prateek Puri, Michael Mills, Christian Schneider, Ionel Simbotin, John Montgomery, Robin Cote, Arthur Suits, and Eric R. Hudson, *Science* **357**, 1370 (2017).
- 4. Spectroscopy of a Synthetic Trapped Ion Qubit**, David Hucul, Justin E. Christensen, Eric R. Hudson, and Wesley C. Campbell, *Physical Review Letters* **119**, 100501 (2017).
- 5. Blue-Sky Bifurcation of ion energies and the limits of neutral-gas sympathetic cooling of trapped ions**, Steve J. Schowlater, Alexander J. Dunning, Kuang Chen, Prateek Puri, Christian Schneider, and Eric R. Hudson, *Nature Communications* **7**, 12448 (2016).
- 6. Laser-Cooling-Assisted Mass Spectrometry**, Christian Schneider, Steven J. Schowalter, Kuang Chen, Scott T. Sullivan, and Eric R. Hudson, *Physical Review Applied* **2**, 034013 (2014).
- 7. Neutral Gas Sympathetic Cooling of an Ion in a Paul Trap**, Kuang Chen, Scott T. Sullivan, and Eric R. Hudson, *Physical Review Letters* **112**, 143009 (2014).
- 8. Evidence for sympathetic vibrational cooling of translationally cold molecules** Wade G. Rellergert, Scott T. Sullivan, Steven J. Schowalter, Svetlana Kotochigova, Kuang Chen, and Eric R. Hudson, *Nature* **495**, 490 (2013).
- 9. Measurement of the Coulomb Logarithm in a Radio-Frequency Paul Trap**, Kuang Chen, Scott T. Sullivan, Wade G. Rellergert, and Eric R. Hudson, *Physical Review Letters*, **110**, 173003 (2013).
- 10. Constraining the Evolution of the Fundamental Constants with a Solid-State Optical Frequency Reference Based on the ²²⁹Th Nucleus**, W.G. Rellergert, D. DeMille, R.R. Greco, M.P. Hehlen, J.R. Torgerson, E.R. Hudson, *Phys. Rev. Lett.* **104**, 200802 (2010)

Awards/recognition received: APS Fellow, American Physical Society (2019); Kavli Fellow, Kavli Frontiers of Science (2018); Presidential Early Career Award for Scientists and Engineers (PECASE) (2016); NIST PMG Award (2014); NSF Career Award (2013); Cottrell Scholar award (Research Corporation, 2012); UCLA Physics & Astronomy Outstanding Teaching Award (2009,2010).