

# Josiah Couch

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## Education

Ph.D. Physics, University of Texas at Austin, May 2019 (expected).  
Thesis advisor: Prof. Willy Fischler  
GPA: 3.68

B.S. Physics and B.S. Mathematics, Oklahoma State University, August 2013.  
GPA: 3.69

## Publications

J. Couch, S. Eccles, W. Fischler and M. L. Xiao, "Holographic complexity and noncommutative gauge theory," JHEP **1803**, 108 (2018) doi:10.1007/JHEP03(2018)108 [arXiv:1710.07833 [hep-th]]. 11 citations counted in INSPIRE as of 09 Jun 2018

J. Couch, W. Fischler and P. H. Nguyen, "Noether charge, black hole volume, and complexity," JHEP **1703**, 119 (2017) doi:10.1007/JHEP03(2017)119 [arXiv:1610.02038 [hep-th]]. 55 citations counted in INSPIRE as of 09 Jun 2018

## Talks

"Holographic Complexity," Oklahoma State University, Stillwater, OK April 2018

"Holographic Complexity and Non-Commutative Gauge Theory," Southwest Holography Meeting 2018, University of Texas at Austin, Austin, TX March 2018

"Holographic Complexity and Non-Commutative Gauge Theory," Joint Meeting of the Texas Section of the APS, Texas Section of the AAPT, and Zone 13 of the SPS, Richardson, TX October 2017

## Teaching Experience

PHY 316 (Electricity and Magnetism) - Grader and Discussion TA	Spring 2017 & 2018
PHY 341 (Forensic Science) - Grader	Fall 2017
PHY 352K (Classical Electrodynamics I) - Grader and Discussion TA	Fall 2016
PHY 362L (Quantum Physics III: Particles and Nuclei) - Grader	Spring 2016
PHY 373 (Quantum Physics I: Foundations) - Grader	Fall 2015
PHY 103M (Lab for Engineering Physics II) - Teaching Assistant	S/F 2014 and S/Summer 2015
PHY 103N (Lab for Engineering Physics I) - Teaching Assistant	Fall 2013

## Honors and Awards

OGS Summer Only Fellowship	Summer 2018
Nominated for UT Services for Students with Disabilities Appreciation Award	Fall 2016
OSU Department of Physics Outstanding Senior	2012
OSU Department of Physics Outstanding Junior	2011