Josiah Couch

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Education

Ph.D. Physics, University of Texas at Austin, Thesis advisor: Prof. Willy Fischler May 2020 (expected).

GPA: 3.68

B.S. Physics and B.S. Mathematics, Oklahoma State University,

August 2013.

GPA: 3.69

Publications

E. Cáceres, J. Couch, S. Eccles and W. Fischler, "Holographic Purification Complexity," arXiv:1811.10650 [hep-th].

J. Couch, S. Eccles, T. Jacobson and P. Nguyen, "Holographic Complexity and Volume," JHEP **1811**, 044 (2018) doi:10.1007/JHEP11(2018)044 [arXiv:1807.02186 [hep-th]]. 6 citations counted in INSPIRE as of 04 Dec 2018

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]]. 27 citations counted in INSPIRE as of 04 Dec 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]]. 74 citations counted in IN-SPIRE as of 04 Dec 2018

Talks

"Holographic Complexity," Oklahoma State Universtiy, Stillwater, OK

April 2018

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

March 2018

"Holographic Complexity and Non-Commutative Guage 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 373 (Quantum Physics I: Foundations) - Grader and Discussion TA

Fall 2015 & 2018

PHY 316 (Electricity and Magnetism) - Grader and Discussion TA

Spring 2017 & 2018

PHY 341 (Forensic Science) - Grader

Fall 2017

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PHY 352K (Classical Electrodynamics I) - Grader and Discussion TA	Fall 2016
PHY 362L (Quantum Physics III: Particles and Nuclei) - Grader	Spring 2016
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 Disabillities Appreciation Award	Fall 2016
OSU Department of Physics Outstanding Senior	2012
OSU Department of Physics Outstanding Junior	2011