

Ryan Leigon

Department of Mathematics
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EDUCATION	Ph.D. in Mathematics Louisiana State University, Baton Rouge, LA Interests: Symplectic Geometry, Contact Geometry, and Low-dimensional Topology Advisors: Scott Baldrige and Shea Vela-Vick	Expected 2019
	B.A. in Mathematics Rice University, Houston, TX	May 2013
HONORS and AWARDS	Louisiana Board of Regents Fellowship	Fall 2014 - Spring 2018
	Pasquale Porcelli Award for Graduate Academic Excellence	Spring 2015
PROJECTS	Establish connections between contact geometry and bordered Floer homology	In Progress
	Study special Lagrangian cones in \mathbb{C}^3 in terms of Lefschetz fibrations	In Progress
LECTURES	<i>Verifying the Axioms for Stiefel-Whitney Classes</i> - Characteristic Classes	Feb 2016
	<i>Steenrod Squares and Constructing the Stiefel-Whitney Classes</i> - Characteristic Classes	Feb 2016
	<i>Relationships Between Riemannian, Hermitian, and Complex Structures</i> - Graduate Topology Reading Seminar	Feb 2016
	<i>The Mapping Class Group of the Sphere with Four Punctures</i> - Mapping Class Groups	Jan 2016
	<i>Residual Finiteness and Stallings Folds</i> - Graduate Topology Research Seminar	Nov 2015
	<i>The Double Cover of $SO(3)$ by $SU(2)$</i> - Chern-Simons Theory	Oct 2015
	<i>Morse Homology</i> - Graduate Topology Reading Seminar	Sep 2015
	<i>The Quotient and Product Topologies</i> - LSU GEAUX Program	Aug 2015
	<i>Introduction to Point-Set Topology</i> - LSU GEAUX Program	Aug 2015

	<i>Hyperbolic Geometry: An Appetizer</i> - Communicating Mathematics	Apr 2015
	<i>Introduction to Hyperbolic Geometry</i> - LSU Undergraduate Math Club	Mar 2015
	<i>The Law of Sines</i> - College Algebra	Mar 2015
	<i>Gaussian Curvature</i> - Topology VIGRE	Nov 2014
	<i>The Fundamental Theorem of Calculus</i> - Calculus I	Oct 2014
RELEVANT COURSEWORK	Characteristic Classes	Spring 2016
	Mapping Class Groups	Spring 2016
	Chern-Simons Theory	Fall 2015
	Homological Algebra	Fall 2015
	Contact Geometry	Summer 2015
	Riemannian Geometry	Spring 2015
SEMINARS	Seminar on Bordered Heegaard Floer Homology	Spring 2016
	LSU Graduate Topology Reading Seminar - Topics: Symplectic Geometry (Spring 2016) Morse Theory (Fall 2015)	Fall 2015-Present
	LSU Graduate Topology Research Seminar	Fall 2015-Present
	LSU Topology Virtual Seminar	Fall 2014-Present
TEACHING EXPERIENCE	Supervised the Graduate Topology Qualifying Exam Preparation Class	Summer 2015
	Taught 9th and 10th grade mathematics at Xavier Educational Academy in Houston, TX	Aug 2013 - June 2014
SERVICE	Volunteered at the <i>LSU High School Mathematics Contest</i>	2015, 2016
	Assisted with <i>Math Saturday: Knotty Math</i> , an outreach event for local middle school students	May 2015
	Served on the LSU Student Colloquium Committee	Jan 2015-Present
	Judged for the Kenilworth Science and Technology School <i>Science and Engineering Fair</i>	Dec 2014

CONFERENCES	<i>IAS Workshop on Flows, Foliations and Contact Structures</i>	Dec 2015
	<i>Tech Topology Conference at Georgia Tech</i>	Dec 2015
	<i>Texas Geometry and Topology Conference at UT Austin</i>	Nov 2014