FENG LING

February, 2016

PERSONAL

	Birth Year: 1992 Citizenship: Chin E-mail: FLing@u	na, People's Republic of atexas.edu	Address: 5505 Avenue F, Austin, TX 78751-1312 Mobile: +1 (713) 666 - 2935 Webpage: http://fl3537.me/		
EDUCATION					
	2010 - 2015	The University of Texas at Austin, A B.S. Pure Mathematics, December 20 B.S. Aerospace Engineering (Astronat Computational Science and Engineeri Halliburton Business Foundations Sur GPA: 3.73/4.0 (188 GPA hr)	15 utics), December 2015 ing Certificate Program, May 2015		
EMPL	OYMENT				
	2013 - 2015 2011		Center for Space Research at UT Austin nent Stock Ltd., Tianjin Xingang Branch		
HON	ORS AND AWARI	OS .			
	2015 2011 2010 2010	Meritorious Winner Team Lead, CO Problem B: Searching lost aeroplane i Member, Aerospace Honor Society Si	uncil Alternative Energy Challenge 3rd place		
PROJ	ECTS				
	2014 - 2015 2014 - 2015 2014 2013 - 2014	gravity misalignment, results in prepar Assisted graduate students on GRACE Analyzed the correlation between GR pattern, and star camera measurement	s of different models of accelerometer and center of ation for publication E spacecraft thermal environment modeling project ACE accelerometer reading anomalies, thruster firing		
	2014 - 2015	Investigated applications of discrete exact conservation finite element analy	exterior calculus and discrete differential geometry for vses (mixed-methods) ons using OpenMP as separate class project		
	2014	Investigated challenges and possible so	ral Re-entry Vehicle System (CORVUS), in a team of 12 olutions for CubeSat orbital (LEO) re-entry problem and parameter design for thermal subsystem		
	2012 - 2014 2011	analysis for a high power (L2) rocket p	ground station and developed post-flight sensor fusion bayload, joint with <i>Scott Almond</i> s from primitive components (e.g. uncured fiberglass)		
	2012		ised by Prof. Todd Humphreys n Square Root Information Filters in MATLAB fferential GPS capability for the GRID receiver		
	2010 - 2011		esearch Initiatives, in a team of 6 al simulation, results presented at NASA-JSC NASA software (TRICK, AGEA, and EDGE)		

GRADUATE COURSEWORK

OTHER CITE		, 0.1112	
Sprin	ng 2016	Moduli of Higgs Bundle (Auditing), Prof. Andrew Neitzke	
		Kac-Moody Algebras and Groups (Auditing), Prof. Daniel Allcock	
		Algebraic Geometry (Auditing), Prof. David Ben-Zvi	
		Riemann Surfaces (Auditing), Prof. Tim Perutz	
Fall 2	2015	Algebra, B, Prof. Felipe Voloch	
		K-theory as it appears in geometry, A , <i>Prof. Dan Freed</i>	
		4-Manifold Topology (Audited), Prof. Robert Gompf	
		Rational Homotopy Theory (Audited), Dr Jonathan Campbell	
Sprin	ng 2015	Differential Topology, A-, Prof. Andrew Neitzke	
_		D-modules (Audited), Dr Sam Gunningham	
		Ergodic Theory and Dynamics (Audited), Prof. Lewis Bowen	
Fall 2	2014	Real Analysis, A , <i>Prof. Lewis Bowen</i>	
		Algebraic Topology, B, Prof. Michael Starbird	
		Homotopy Type Theory (Audited), Prof. Andrew Blumberg	
Sprin	ng 2014	Complex Analysis, A-, Prof. Thomas Chen	
		Stochastic Detection and Estimation, B+ , <i>Prof. Todd Humphreys</i>	
Fall 2	2013	Finite Elements Methods, A, Prof. Mary Wheeler	
Sprin	ng 2013	GPS Signal Processing, A-, Prof. Todd Humphreys	
CONFERENCE COURSES			

Fall 2015	Topics in algebraic topology, advised by Prof. Andrew Blumberg
	Mainly studying A Concise Course in Algebraic Topology (e.g. cup products (LS category),
	Poincaré duality, (co)fibrations and (co)fiber sequences, CW complex)

TALKS

Spring 2016	Texas undergraduate Topology And Geometry conference (TexTAG), LS category
Fall 2015	Directed Reading Program (DRP) , (co) fiber sequences and $\pi_3(S^2)$, mentored by <i>Ernest Fontes</i>
Spring 2015	DRP, What is persistent homology, mentored by Ahmad Issa
Fall 2014	DRP , Čech cohomology of projective spaces, mentored by <i>Dr Yuecheng Zhu</i>
Spring 2014	DRP , Classification of Du-val singularities, mentored by Dr Yuecheng Zhu
Fall 2013	DRP , How to blow up double points in an affine plane and why you should do it too, mentored
	by Dr Hendrik Orem

MISC. EXTRACURRICULAR

2014 & 2015 2013 - present	Participant, TexTAG: Texas undergraduate Topology And Geometry conference Active Member, Math Club
2011 - present	Coursera, Udacity, and other MOOC experiences
1	Completed with Statement of Accomplishment in Cryptography, Software Testing, Machine
	Learning, Database Management, Artificial Intelligence, Automata Theory, Epigenetic Control
	of Gene Expression, Exploring Particle World, and Classical Chinese Philosophy.
2011 - 2014	Active Member, Longhorn Rocket Association
May 2014	Participant, LeaderShape Institute
Summer 2013	Programmed and assembled FPV-enabled quad-rotor PCB-frame MAV for fun
2010 - 2011	Active Member, Engineering for a Sustainable World at UT Austin
2010	Member, IEEE Robotics and Automation Society
	Participated in Robot-a-thon autonomous robot building competition
2010	Active Member, Freshman Engineering Committee of Student Engineering Council

VOLUNTEERING

2016	SXSW (comedy and planning operations crew)
2015	Introduce a Girl to Engineering Day (Ballon rockets and iterative engineering design)
Summer 2013	UT Radionavigation Lab (Studying WAAS)
2011	Habitat for Humanity (Actually helped roofed and fenced a house)
	Explore UT Tour Guide
2009	Music Units Societies Everywhere (MUSE) and Bellaire Art Club
2007 - 2009	Methodist Hospital and Bellaire City Library