FENG LING

November, 2015

PERSONAL

	Birth Year: 1992 Citizenship: China, People's Republic of E-mail: FLing@utexas.edu		Address: 5505 Avenue F, Austin, TX 78751-1312 Mobile: +1 (713) 666 - 2935 Webpage: http://fl3537.me/			
EDUC	EDUCATION					
	2010 - 2015	The University of Texas at Austi B.S. Pure Mathematics, December 20 B.S. Aerospace Engineering (Astrona Computational Science and Engineer Halliburton Business Foundations Su GPA: 3.736/4.0 (178 GPA hr)	outics), December 2015 ing Certificate Program, May 2015			
EMPI	LOYMENT					
	2013 - present 2011		nt, Center for Space Research at UT Austin ment Stock Ltd., Tianjin Xingang Branch			
HONO	ORS AND AWAR	RDS				
	2015 2011 2010 2010	Problem B: Searching lost aeroplane i Member , Aerospace Honor Society S	COMAP Mathematical Contest In Modeling n open water, general advise from <i>Dr. Andrew Spann</i> ligma-Gamma-Tau UT Austin Chapter ouncil Alternative Energy Challenge 3rd place and Engineering Fair			
PROJ	ECTS					
	2014 - present 2014 - 2015 2014 2013 - 2014	preparation for publication Assisted graduate students on spacecr Analyzing the GRACE accelerometer measurement deviations	pervised by <i>Dr Srinivas Bettadpur</i> s of accelerometer-CG misalignment models, results in aft and mission thermal environment modeling project data anomalies from thruster firing and star camera of GRACE on-board SNR and post-fit residue of the			
	2014 - 2015					
	2014	Investigated challenges and possible se	beSat Orbital Re-entry Vehicle System (CORVUS) colutions for CubeSat orbital (LEO) re-entry problem and parameter design for thermal subsystem			
	2012 - 2014 2011	analysis for a high power (L2) rocket	ground station and developed post-flight sensor fusion			
	2012	for Satellite Navigation Courses Built a software GPS receiver/process Tested dual frequency carrier-phase de	for using MATLAB ifferential GPS capability for the GRID receiver			
	2010 - 2011		n Research Initiatives joint with NASA-JSC cal simulation, results presented at JSC			

GRADUATE COURSEWORK

Fall 20)15	Algebra, Prof. Felipe Voloch		
		K-theory as it appears in geometry, Prof. Dan Freed		
		4-Manifold Topology (Auditing), Prof. Robert Gompf		
		Rational Homotopy Theory (Auditing), Dr Jonathan Campbell		
Spring	2015	Differential Topology, Prof. Andrew Neitzke		
		D-modules (Audited), Dr Sam Gunningham		
		Ergodic Theory and Dynamics (Audited), Prof. Lewis Bowen		
Fall 20)14	Real Analysis, Prof. Lewis Bowen		
		Algebraic Topology, Prof. Michael Starbird		
		Homotopy Type Theory (Audited), Prof. Andrew Blumberg		
Spring	2014	Complex Analysis, Prof. Thomas Chen		
		Stochastic Detection and Estimation, Prof. Todd Humphreys		
Fall 20	013	Finite Elements Methods, Prof. Mary Wheeler		
Spring	2013	GPS Signal Processing, Prof. Todd Humphreys		
CONFERENCE COURSES				

Fall 2015	Topics in algebraic topology, advised by <i>Prof. Andrew Blumberg</i>			
	Mainly studying A Concise Course in Algebraic Topology (e.g. cup products, (co)fiber se-			
	quences, CW complexes)			

TALKS

Fall 2015	Directed Reading Program , Manifold covers and LS-categories, mentored by <i>Ernest Fontes</i>
Spring 2015	Directed Reading Program, What is persistent homology, mentored by Ahmad Issa
Fall 2014	Directed Reading Program , Čech cohomology of projective spaces, mentored by <i>Dr Yuecheng Zhu</i>
Spring 2014	Directed Reading Program , Classification of Du-val singularities, mentored by Dr Yuecheng Zhu
Fall 2013	Directed Reading Program , How to blow up double points in an affine plane and why you should do it too, mentored by <i>Dr Hendrik Orem</i>

MISC. EXTRACURRICULAR

	2013 - present	Active Member, Math Club
2011 - present Coursera, Udacity, and other MOOC experiences		Coursera, Udacity, and other MOOC experiences
		Completed with Statement of Accomplishment in Cryptography, Software Testing, Machine
		Learning, Database Management, Artificial Intelligence, Automata Theory, Epigenetic Con-
		trol 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

2015	Introduce a Girl to Engineering Day
2019	9 0 1
Summer 2013	UT Radionavigation Lab (Studying WAAS)
2011	Habitat for Humanity
	Explore UT Tour Guide
2009	Music Units Societies Everywhere
	Bellaire Art Club
2008 - 2009	Methodist Hospital
2007 - 2009	Bellaire City Library