FENG LING

November, 2015

PERSONAL

Birth Year: 19 Citizenship: C E-mail: FLing@	hina, People's Republic of	Address: 5505 Avenue F, Austin, TX 78751-1312 Mobile: +1 (713) 666 - 2935 Webpage: http://fl3537.me/
EDUCATION		
2010 - 2015		nber 2015
EMPLOYMENT		
2013 - present 2011		ssistant, Center for Space Research at UT Austin t Stock Ltd., Tianjin Xingang Branch
HONORS AND AWA	ARDS	
2015 2011 - 2015 2010 2010	B: Searching lost aeroplane in a Member, Aerospace Honor So	ciety Sigma-Gamma-Tau UT Austin Chapter eering Council Alternative Energy Challenge 3rd place
PROJECTS		
2014 - present 2014 - 2015 2014 2013 - 2014	Parametric study on dynamical preparation for publication Assisted graduate students on s Analyzing the GRACE accelere measurement deviations	rch, supervised by <i>Dr Srinivas Bettadpur</i> leffects of accelerometer-CG misalignment models, results in spacecraft and mission thermal environment modeling project cometer data anomalies from thruster firing and star camera dicance of GRACE on-board SNR and post-fit residue of the
2014 - 2015	Research Project for the Convertigated applications of disconservation Finite Element Explored parallel computing in	crete exterior calculus and discrete differential geometry for ent Analyses
2014	Investigated challenges and pos	t, CubeSat Orbital Re-entry Vehicle System (CORVUS) sible solutions for CubeSat orbital (LEO) re-entry problem e-entry and parameter design for thermal subsystem
2012 - 2014 2011	analysis for a high power (L2)	tiation tware ground station and developed post-flight sensor fusion rocket payload, joint with Scott Almond rockets from primitive components (e.g. uncured fiberglass)
2012	for Satellite Navigation Cor Built a software GPS receiver/I Tested dual frequency carrier-p	
2010 - 2011		ulation Research Initiatives joint with NASA-JSC graphical simulation, results presented at JSC

GRADUATE COURSEWORK

Fall 2015	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 2014	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 2013	Finite Elements Methods, Prof. Mary Wheeler			
Spring 2013	GPS Signal Processing, 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, (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 complex projective spaces, mentored by Dr Yuecheng Zhu
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	
	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
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