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	CATION		
	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		
HONG	2013 - present 2011	Summer Intern, Zhongchu Developi	nt, Center for Space Research at UT Austin ment Stock Ltd., Tianjin Xingang Branch
HONG	ORS AND AWAI	RDS	
	2015 2011 2010 2010	Problem B: Searching lost aeroplane i Member , Aerospace Honor Society S	COMAP Mathematical Contest In Modeling in open water, general advise from Dr. Andrew Spann Gigma-Gamma-Tau UT Austin Chapter buncil Alternative Energy Challenge 3rd place and Engineering Fair
PROJ	ECTS		
	2014 - present 2014 - 2015 2014 2013 - 2014	gravity misalignment, results in prepa Assisted graduate students on spacecr Analyzed the correlation between GR pattern, and star camera measuremen	ts of different models of accelerometer and center of cration for publication aft and mission thermal environment modeling project ACE accelerometer reading anomalies, thruster firing
	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 2015	Almahua Doof Falina Valaah		
ran 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 Spring 2015	Directed Reading Program, Fiber and cofiber sequences, mentored by <i>Ernest Fontes</i> Directed Reading Program, What is persistent homology, mentored by <i>Ahmad Issa</i>
Fall 2014	Directed Reading Program, Čech cohomology of 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 Dr Hendrik Orem

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 (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
	Bellaire Art Club
2008 - 2009	Methodist Hospital
2007 - 2009	Bellaire City Library