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 Austin, Austin, TX B.S. Pure Mathematics, December 2015 B.S. Aerospace Engineering (Astronautics), December 2015 Computational Science and Engineering Certificate Program, May 2015 Halliburton Business Foundations Summer Institute, July 2012 GPA: 3.736/4.0 (178 GPA hr)					
EMPI	OYMENT						
	2013 - present 2011		Center for Space Research at UT Austin nent Stock Ltd., Tianjin Xingang Branch				
HON	ORS AND AWARI	OS .					
	2015 2011 2010 2010	Problem B: Searching lost aeroplane i Member, Aerospace Honor Society Si	MAP Mathematical Contest In Modeling in open water, general advise from <i>Dr Andrew Spann</i> igma-Gamma-Tau UT Austin Chapter uncil Alternative Energy Challenge 3rd place and Engineering Fair				
PROJ	ECTS						
	2014 - present 2014 - 2015 2014 2013 - 2014	gravity misalignment, results in prepar Assisted graduate students on GRACI Analyzed the correlation between GR pattern, and star camera measurement	es of different models of accelerometer and center of ration for publication E spacecraft thermal environment modeling project RACE accelerometer reading anomalies, thruster firing				
	2014 - 2015						
	2014	Investigated challenges and possible so	tal Re-entry Vehicle System (CORVUS), in a team of 12 colutions 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 payload, 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	TRICK Modeling and Simulation Re Generated Mars rover landing graphic	esearch Initiatives, in a team of 6 ral simulation, results presented at NASA-JSC				

	beveloped internating codes based on Tribit software (Titlett, TiO21, and BBOD)
GRADUATE COURSE	CWORK
Fall 2015	Algebra, Prof. Felipe Voloch
	K-theory as it appears in geometry, <i>Prof. Dan Freed</i>
	4-Manifold Topology (Auditing), Prof. Robert Gompf
	Rational Homotopy Theory (Auditing), Dr Jonathan Campbell
Spring 2015	Differential Topology, A-, Prof. Andrew Neitzke
1 0	D-modules (Audited), Dr Sam Gunningham
	Ergodic Theory and Dynamics (Audited), Prof. Lewis Bowen
Fall 2014	Real Analysis, A, Prof. Lewis Bowen
	Algebraic Topology, B, Prof. Michael Starbird
	Homotopy Type Theory (Audited), Prof. Andrew Blumberg
Spring 2014	Complex Analysis, A-, Prof. Thomas Chen
	Stochastic Detection and Estimation, B+ , <i>Prof. Todd Humphreys</i>
Fall 2013	Finite Elements Methods, A, Prof. Mary Wheeler
Spring 2013	GPS Signal Processing, A-, Prof. Todd Humphreys
CONFERENCE COUI	RSES
Fall 2015	Topics in algebraic topology, advised by Prof. Andrew Blumberg
1 un 2010	Mainly studying A Concise Course in Algebraic Topology (e.g. cup products (LS categories),
	Poincaré duality, (co)fibrations and (co)fiber sequences, CW complexes)
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TALKS	
Fall 2015	Directed Reading Program (DRP), (co)fiber sequences, mentored by Ernest Fontes
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. EXTRACURRIO	CULAR
2014 & 2015	Participant, texTAG: Texas Undergraduate Topology and Geometry conference
2013 - present	Active Member, Math Club
2011 - present	Coursera, Udacity, and other MOOC experiences
F-555110	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

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	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

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
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