FENG LING

November, 2015

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Birth Year: 19 Citizenship: C E-mail: FLing	China, 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> l effects of accelerometer-CG misalignment models, results in spacecraft and mission thermal environment modeling project ometer data anomalies from thruster firing and star camera ficance of GRACE on-board SNR and post-fit residue of the	
2014 - 2015	Research Project for the Continuous Investigated applications of dissexact conservation Finite Element Explored parallel computing in	screte exterior calculus and discrete differential geometry for ent Analyses	
2014	Investigated challenges and pos	et, CubeSat Orbital Re-entry Vehicle System (CORVUS) ssible solutions for CubeSat orbital (LEO) re-entry problem e-entry and parameter design for thermal subsystem	
2011 - 2014	analysis for a high power (L2)	tware ground station and developed post-flight sensor fusion rocket payload in a team of two rockets from primitive components (e.g. uncured fiberglass)	
2012	for Satellite Navigation Cor Built software GPS processor u Testing Carrier-phase Different		
2010 - 2011	TRICK Modeling and Simu	ulation Research Initiatives joint with NASA-JSC	

Generated Mars rover landing 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 C	COURSES

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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 Ernest
	Fontes
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 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
Summer 2013	UT Radionavigation Lab (Researching about 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