FENG LING

February, 2016

PERSONAL

	Birth Year: 1992 Citizenship: Chin E-mail: FLing@u	na, People's Republic of atexas.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 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: 3.73/4.0 (188 GPA hr)		
EMPL	OYMENT			
	2013 - 2015 2011		Center for Space Research at UT Austin nent Stock Ltd., Tianjin Xingang Branch	
HON	ORS AND AWARI	OS .		
	2015 2011 2010 2010	Meritorious Winner Team Lead, CO Problem B: Searching lost aeroplane i Member, Aerospace Honor Society Si	uncil Alternative Energy Challenge 3rd place	
PROJ	ECTS			
	2014 - 2015 2014 - 2015 2014 2013 - 2014	gravity misalignment, results in prepar Assisted graduate students on GRACE Analyzed the correlation between GR pattern, and star camera measurement	s of different models of accelerometer and center of ation for publication E spacecraft thermal environment modeling project ACE accelerometer reading anomalies, thruster firing	
	2014 - 2015	Investigated applications of discrete exact conservation finite element analy	exterior calculus and discrete differential geometry for vses (mixed-methods) ons using OpenMP as separate class project	
	2014	Investigated challenges and possible so	ral Re-entry Vehicle System (CORVUS), in a team of 12 olutions 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 bayload, 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		esearch Initiatives, in a team of 6 al simulation, results presented at NASA-JSC NASA software (TRICK, AGEA, and EDGE)	

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Spring 2016	Moduli of Higgs Bundle (Auditing), Prof. Andrew Neitzke
	Kac-Moody Algebras and Groups (Auditing), Prof. Daniel Allcock
	Algebraic Geometry (Auditing), Prof. David Ben-Zvi
Fall 2015	Riemann Surfaces (Auditing), <i>Prof. Tim Perutz</i> Algebra, B , <i>Prof. Felipe Voloch</i>
1 an 2013	K-theory as it appears in geometry, A , <i>Prof. Dan Freed</i>
	4-Manifold Topology (Audited), <i>Prof. Robert Gompf</i>
	Rational Homotopy Theory (Audited), <i>Dr Jonathan Campbell</i>
Spring 2015	Differential Topology, A-, Prof. Andrew Neitzke
op:8 = 010	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+, Prof. Todd Humphreys
Fall 2013	Finite Elements Methods, A, Prof. Mary Wheeler
Spring 2013	GPS Signal Processing, A-, Prof. Todd Humphreys
NFERENCE COU	RSES
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 (LS category) Poincaré duality, (co)fibrations and (co)fiber sequences, CW complex)
LKS	
Fall 2015 Spring 2015	Directed Reading Program (DRP) , (co) fiber sequences and $\pi_3(S^2)$, mentored by <i>Ernest Fonte</i> . DRP , What is persistent homology, mentored by <i>Ahmad Issa</i>
Fall 2014	DRP, Čech cohomology of projective spaces, mentored by Dr Yuecheng Zhu
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 <i>Dr Hendrik Orem</i>
SC. 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
	Completed with Statement of Accomplishment in Cryptography, Software Testing, Machine Learning, Database Management, Artificial Intelligence, Automata Theory, Epigenetic Contro of Gene Expression, Exploring Particle World, and Classical Chinese Philosophy.
	Active Member, Longhorn Rocket Association

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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

2016	SXSW (comedy and planning operations crew)	
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 (MUSE) and Bellaire Art Club	
2007 - 2009	Methodist Hospital and Bellaire City Library	