FENG LING

January, 2019

PERSONAL INFO

Birth Year: 1992 Citizenship: China, People's Republic of E-mail: FLing@usc.edu		Address: 1193 W 35 St, Los Angeles, CA 90007 Mobile: +1 (713) 666 - 2935 Webpage: http://gofling.me/
EDUCATION		
2016 -	University of Southern California, Los Angeles, CA Ph.D. Mechanical Engineering	
2010 - 2015	The University of Texas at Austin, A. B.S. Pure Mathematics, December 20 B.S. Aerospace Engineering (Astrona Computational Science and Enginee Halliburton Business Foundations Science	015 nutics), December 2015 ring Certificate Program, May 2015
EMPLOYMENT		
2017 - 2016 2013 - 2015	Research Assistant, University of So Teaching Assistant, USC, Engineering Research Assistant, Center for Space	
HONOR and AWAI	RDS	
2015		MAP Mathematical Contest In Modeling to in open water, locally organized by <i>Dr. Andrew Spann</i>
2011 2010	Member, Aerospace Honor Society S Finalist, Intel International Science a	Sigma-Gamma-Tau UT Austin Chapter nd Engineering Fair
PUBLICATIONS		
2018	Ling, F., Guo, H., Kanso, E., Instabiterface 15: 20180594.	lity-driven oscillations of elastic microfilaments, J. R. Soc. In-
RESEARCH EXPE	RIENCE	
2017 -		y <i>Prof. Eva Kanso</i> astabilities and active forces on cilia beating models ls to analyze bulk characteristics of ciliary pumps
2016 -		em, supervised by <i>Prof. Etienne Vouga</i> and <i>Prof. Keenan Crane</i> arfaces using only its Laplace-Beltrami spectrum
2013 - 2015	celerometer and center of mass Coding assists for GRACE spacecraf Analyzed correlations between GRA and star camera measurement deviati	ts of different misalignment models between spacecraft act t thermal environment modeling CE accelerometer reading anomalies, thruster firing pattern,
TALKS		
2018 2018 2017 2016 2015	APS Division of Fluid Dynamics (I Mathematics Undergraduate Stude	en Oscillations of Active Microfilament OFD) Meeting, Dynamics of Active Microfilaments on Talks (MUST), LS category and its cousins (co)fiber sequences and $\pi_3(S^2)$, mentor: Ernest Fontes
2014 2013	DRP , Čech cohomology of projectiv DRP , Classification of Du-val singular	e spaces, mentor: Yuecheng Zhu

GRADUATE COURSEWORK

	at University of Southern California
2018	Transition to Chaos in Dynamical Systems, Prof. Paul Newton
	Mechanics of Locomotion in Air, Water, and on Land, Prof. Eva Kanso
2017	Thermodynamics and Statistical Mechanics, Prof. Christoph Haselwandter
	Incompressible Fluids and Turbulence, Prof. Mitul Luhar
2016	Fokas method (audit), Prof. Athanassios Fokas
	at the University of Texas at Austin
	Kac-Moody Algebras and Groups (audit), Prof. Daniel Allcock
	Algebraic Geometry (audit), Prof. David Ben-Zvi
	Riemann Surfaces (audit), Prof. Tim Perutz
	Moduli of Higgs Bundle (audit), Prof. Andrew Neitzke
2015	Algebra, Prof. Felipe Voloch
	K-theory as it appears in geometry, Prof. Dan Freed
	4-Manifold Topology (audit), Prof. Robert Gompf
	Rational Homotopy Theory (audit), Dr Jonathan Campbell
	Differential Topology, Prof. Andrew Neitzke
	D-modules (audit), Dr Sam Gunningham
	Ergodic Theory and Dynamics (audit), Prof. Lewis Bowen
2014	Real Analysis, Prof. Lewis Bowen
	Algebraic Topology, Prof. Michael Starbird
	Homotopy Type Theory (audit), Prof. Andrew Blumberg
	Complex Analysis, Prof. Thomas Chen
	Stochastic Detection and Estimation, Prof. Todd Humphreys
2013	Finite Elements Methods, Prof. Mary Wheeler
	GPS Signal Processing, Prof. Todd Humphreys

MISC. ASSOCIATIONS		
2018 -	Good Karma Cafe (USC) designated pot washer	
2017	USC Wrigley Marine Science Institute Spring Break Program on Sustainability	
2016 -	DTLA Weightlifting (Trojan Athletics)	
2016	SXSW comedy and planning operations crew volunteering	
2015	Introduce a Girl to Engineering Day (Ballon rockets and iterative engineering design)	
2014 - 2016	TexTAG: Texas undergraduate Topology And Geometry conference	
2013 - 2016	Math Club (UT Austin)	
2011 - 2016	Coursera, Udacity, and other MOOCs in Cryptography, Software Testing, Machine Learning,	
	Database Management, AI, Automata Theory, Epigenetic Control of Gene Expression	
2010 - 2011	Engineering for a Sustainable World (UT Austin); Habitat for Humanity (e.g. helped roofed and	
	fenced a house); Explore UT Guide; IEEE Robotics and Automation Society (UT Austin)	