

ACADEMIC TEAM



Prof. Shengping SHEN

Homepage: <http://ssheng.gr.xjtu.edu.cn>

Email: sshen@mail.xjtu.edu.cn

Research Interests:

1. Functional Materials & Structures
2. Coupling between Mechanics & Chemistry
3. Fatigue & Fracture



Prof. Zishun Liu

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Dr. Zishun Liu's research interests are in the areas of Mechanics of Soft Materials, Computational Solid Mechanics & Biomechanics, Nanomechanics, Vibro-Acoustic. He has published more than 100 SCI research papers and two of his research articles were awarded Most Cited Author Award by IJSS. Now he also holds Adjunct Professorships in NUS.



Prof. Marie-Jean THORAVAL

Nationality: French

Email: mjthoraval@xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/mjthoraval-en>

Research Interests:

Fluid Mechanics, focusing on interfacial flows, drop impact, coalescence, high-speed imaging, combining experimental techniques and numerical simulations. His research has been published in Physical Review Letters, Journal of Fluid Mechanics and Physical Review E, with international collaborators in the US, France, Japan, Singapore, Saudi Arabia and the Netherlands.

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Prof. Xiaogeng Tian



Email: tiansu@mail.xjtu.edu.cn,

Homepage: <http://gr.xjtu.edu.cn/web/tiansu>

Research areas:

Smart materials and structures;

Non-classical thermoelasticity: involving generalized thermoelasticity, fractional generalized thermoelasticity and thermoelasticity with nonlocal effect;

Energy absorption of ultralight materials and structures;

Elastic band gap in complex periodic structures, such as elastic band gap of phononic crystals, hexagonal hierarchical lattice structures, etc.

Prof. Xi Chen

Email: xichen@columbia.edu

Group Webpage: <http://www.columbia.edu/~xc2107>

Education

Ph.D., Solid Mechanics, Division of Engineering and Applied Sciences, Harvard University, May 2001. Advisor: Professor John W. Hutchinson.

Research Interests

Materials and Mechanics: Using multi-scale, multi-phase and multi-physics modeling, simulation, and experimental approaches, to investigate interdisciplinary mechanics frontiers in novel materials addressing challenges in energy and environment, nanomechanics, and mechanobiology. Examples of research at XJTU include: carbon dioxide capture and storage, large scale energy storage system, high efficiency energy conversion nanomaterials, new framework of electric car, environmental protection nanomaterials.



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Prof. Zhenmao CHEN

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Homepage: <http://gr.xjtu.edu.cn/web/chenzm>

Prof. Zhenmao Chen's research interests include:

1. ElectroMagneto-Thermal-Structural Coupling Mechanics
2. Electromagnetic NDT and applications to Nuclear Power Plants
3. Numerical methods and software development for electromagnetic NDT and EM-Mechanical coupling mechanics
4. Inverse problem and applications to NDT&E
5. Signal processing method and code development for NDT applications
6. Development of advanced NDT techniques
7. Instrumentation of NDT probes and inspection system

Prof. Tian Jian LU

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Research Interests:

1. Fracture, creep and fatigue of materials
2. Multifunctional porous materials and structures: design, fabrication and characterization
3. Active materials, soft matter
4. Heat transfer and thermal management
5. Vibroacoustics and noise control
6. Biomechanics and bioengineering



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Prof. Ling Hong



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Prof. Ling Hong's research area is Nonlinear Dynamics and Control focusing on global dynamics, bifurcations and chaos. The following are her research projects from NSFC that she has currently been working:

1. State Space Discretization Based Methods for Vibration and Control of High Dimensional Uncertain Nonlinear Systems (Co-PI from 2014 to 2018)
 2. Study on Evolutionary Dynamics of Transient Responses and Membership Distribution Functions for Fuzzy Nonlinear Systems (PI from 2017 to 2020)
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Prof. Jun Jiang



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Phone: +86-29-82669089 (Office)

Research areas: Nonlinear dynamics and control, bifurcation and chaos, numerical methods for nonlinear global analysis; Rotor dynamics; Adaptive structure and vibration control; fluid induced vibration and fluid-elasticity; etc. Currently, he works on NSFC key project: State Space Discretization Based Methods for Vibration and Control of High Dimensional Uncertain Nonlinear Systems (PI from 2014 to 2018).

Prof. Rong Haijun



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Research Field: Machine learning, Identification and control of nonlinear systems, Adaptive control and failure diagnosis of aerospace, Brain-computer signal processing, Decision making process of small UAVs based on different brain signals.