

Personnel Infos:

Homepage:

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Email:

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ResearchGate:

https://www.researchgate.net

/profile/Qing-Xia-12

Google Scholar:

https://scholar.google.com/citations?user=pWXuL4EAA

AAJ&hl=zh-CN

Language:

Chinese: Maternal English: IETS 7.0/9.5

Computer skills:

•Programing Language: C/Python/C++, Matlab, Mathicmatica

•Working Software: Excel/PowerPoint/Word,

PS, and AfterEffect
•Scientific Software:

Abagus, COMSOL

Proficient in using ŁATEX and power user of LINUX

Hobby:

Jogging, Traveling, Photographing, Fitness, Guitar

Research Interests:

Phase field method, Finite Difference Method, Numerical analysis, Topology optimization

Qing XIA

EDUCATIONS

2021-present XI'AN JIAO TONG UNIVERSITY(XJTU), CHINA

- -Department of Applied Mathematics
- -School of Mathematics and Statistics
- -Ph.D candidate

2019-2021 XI'AN JIAO TONG UNIVERSITY(XJTU), CHINA

- -Department of Applied Mathematics
- -School of Mathematics and Statistics
- -Master candidate

Sept 2015-Jun 2019 XI'AN JIAO TONG UNIVERSITY(XJTU), CHINA

- -Department of Applied Mathematics
- -School of Mathematics and Statistics
- -Bachelor Degree

MAGNUM OPUS

Multi-physical fields coupled computation

- Qing Xia, Qian Yu, Yibao Li, A second-order accurate, unconditionally energy stable numerical scheme for binary fluid flows on arbitrary curved surfaces, Computer Methods in Applied Mechanics and Engineering, 384 (2021) 113987.
- **Qing Xia**, Junseok Kim, Binhu Xia, Yibao Li, An unconditionally energy stable method for binary incompressible heat conductive fluids based on the phase–field model, Computers and Mathematics with Applications, 123 (2023) 26-39. (SCI, Impact Factor 3.440)
- **Qing Xia**, Junseok Kim, Yibao Li*, Modeling and simulation of multicomponent immiscible flows based on a modified Cahn-Hilliard equation, European Journal of Mechanics-B/Fluids, 95 (2022) 194-204. (SCI, Impact Factor 2.183)

Topology optimization & 3D printing

- Qing Xia, Gangming Sun, Qian Yu, Yibao Li, Thermal-fluid topology optimization with unconditional energy stability and second-order accuracy via phase-field model, Communications in Nonlinear Science and Numerical Simulation 116 (2023) 106782. (SCI, Impact Factor 4.260)
- Yibao Li, **Qing Xia**, Sungha Yoon, Chaeyoung Lee, Bingheng Lu, Junseok Kim, Simple and efficient volume merging method for triply periodic minimal structures, Computer Physics Communications, 264 (2021) 107956.

Image processing

- •Yibao Li, **Qing Xia**, Sungha Yoon, Junseok Kim, A simple and efficient fingerprint image restoration method based on a phase-field model, Pattern Recognition, Submitted.
- •Jin Wang, **Qing Xia**, Binhu Xia, Fast Image Restoration Method Based on the L0, L1, and L2 Gradient Minimization, Mathematics 10 (2022) 3107.

PATENTS

- 李义宝, 史政源, 夏青, 卢秉恒, 一种隐形牙套的牙齿-牙龈快速分割方法。(中国专利)
- ●李义宝,刘蕊,夏青,一种基于多探测器的自动报靶预测算法。(中国 专利)

TECHING EXPERIENCE

Teaching Assistant

Master course, Xi'an Jiaotong University, School of Mathematics and Statics

• Numerical Analysis(A)

Instructor: Prof. Dr. Yibao Li, Iharbour, Fall 2020.

• Numerical Analysis(B)

Instructor: Prof. Dr. Yibao Li, Iharbour, Fall 2019.

AWARDS & PROJECTS

⇒Nov 2022	Outstanding Model for the Doctoral students of
	Xi'an Jiaotong University(2022)
⇒Oct 2022	National Scholarship for Doctoral students(2022)
⇒May 2022	The Fundamental Research Funds for the Central
	Universities(No. XYZ022022005)
⇒May 2020	Outstanding Communist Youth League cadres
	of Xi'an Jiaotong University(2020)
⇒Sep 2019	Outstanding Graduate of Xi'an Jiaotong University(2019)