Cu Cui

PERSONAL DATA

PLACE AND DATE OF BIRTH: China | 18 June 1996

ADDRESS: Sun Yat-Sen University, Guangzhou 510006, P. R. China.

PHONE: (+86) 18502211960 EMAIL: cuic3@mail2.sysu.edu.cn

EDUCATION

JULY 2021 Sun Yat-sen University (SYSU)

Master of Science in Computational Mathematics

Finite Element Method (FEM), Extended/Generalized FEM (XFEM/GFEM)

Advisor: Prof. Qinghui ZHANG

GPA: 90/100 Detailed List of Exams

JULY 2018 China University of Petroleum - Beijing (CUPB)

Undergraduate Degree in MATHEMATICS AND APPLIED MATHEMATICS

Thesis: "Study on Thermal Energy Equation with Finite Element Method" |

Advisor: Liqun WANG GPA: 3.73/4.00

HONORS AND AWARDS

SEPT. 2020	First prize of university scholarship. The top 10% student in the Department of Mathematics
JULY 2018	Excellent Graduate in Beijing. Ranked 2nd in the Department of Mathematics
JULY 2018	Outstanding Undergraduate Thesis. Ranked 1st in the Department of Mathematics
SEPT. 2016	Excellent Student Cadre, in the Department of Mathematics (CHY 1,000)
SEPT. 2015	China Petroleum Scholarship. Ranked 1st in the Department of Mathematics (CHY 6,000)
MAY 2015	3rd Place. China University of Petroleum(Beijing) "Petroleum Cup" football match

PUBLICATIONS

C. Cui, Q. Zhang. Stable generalized finite element methods for elasticity crack problems. *Int J Numer Methods Eng.* 2020; 121: 3066-3082. https://doi.org/10.1002/nme.6347

Q. Zhang, C. Cui. Condensed generalized finite element method. *Numer Methods Partial Differential Eq.* 2020;1–22. https://doi.org/10.1002/num.22616

RESEARCH INTERESTS

- Finite Element Method (FEM), Extended/Generalized FEM (XFEM/GFEM)
- Computational Science and Engineering

LANGUAGES

ENGLISH: B2 level

CHINESE: Native language

COMPUTER SKILLS

Basic Knowledge: MPI, Doxygen, LINUX, Python(Pytorch), PETSc, deal.II

Intermediate Knowledge: C/C++, MATLAB, LATEX

SUMMER AND SHORT COURSES

MAY 21 2018 MAY 25 2018 5-day course Finite element methods in scientific computing. Beijing Wolfgang Bangerth

- An introduction to the finite element method.
- Brief introduction to deal.II.
- Beyond computing: Workflows in scientific computing.

JUL 23 2019

The 3rd "Summer School of Numerical Methods and Theory of Partial Differential Equations". Chengdu

AUG 11 2019

Xiaobing Feng, ChiWang Shu, Jie Shen

- Finite Element Method and its Applications.
- Discontinuous Galerkin Methods for Convection Dominated PDEs.
- Numerical methods for Navier-Stokes equations and phase-field mod-

IUL 6 2020 JUL 10 2020

Finite Element and Deep Neural Networks (Online) Iinchao Xu

- Finite Element Method and Multigrid method in Convolution.
- Finite Element and Deep Neural Network Functions.
- Approximation Properties of DNN..

EXTRACURRICULAR ACTIVITIES

MAY 2016-JUN 2017

China University of Petroleum (Beijing), Faculty of Science, Party branch "Red 1 + 1" co-construction activity. Beijing **CORE MEMBER**

- Help people with disabilities in rehabilitation training.
- · Dance learning, Poetry readings, Writing calligraphy
- Visit the Memorial Hall of the First Party Branch of the Communist Party of China in JingXiShan.
- The event won the third prize of Beijing.

JUN 2016-JUL 2016 | Water resources protection social practice activity. Tianjin-Yueyang CORE MEMBER

- Held environmental protection science lectures.
- The title of advanced individual in social practice.
- Outstanding Individuals in Social Practice Activities.

Links

ResearchGate • Google Scholar • GitHub • Homepage Supervisor: Prof. Qinghui Zhang • Prof. Liqun Wang

Master of Science in Computational Mathematics Grades

Ехам	GRADE	CREDIT HRS
Functional Analysis		4
Modern Partial Differential Equations		4
Optimization Theory and Methods		4
Numerical Approximation Theory		4
Algorithm Design and its Complexity		4
Research on the Theory and Practice of Socialism		2
with Chinese Characteristic		
Marxism and the Methodology of Social Science		1
Artificial Intelligence and Neural Networks		4
English (Exemption)	80	5
	Total	32
	GPA	90