

Xiaowen Li

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EDUCATION

UNIVERSITY OF KANSAS

MASTER IN MATHEMATICS

2018 - present | Lawrence, KS

BAYLOR UNIVERSITY

BACHELOR OF SCIENCE IN MATHEMATICS

MINOR IN COMPUTER SCIENCE

May 2018 | Waco, TX

Cum. GPA: 3.62 / 4.0 | Major GPA: 3.78 / 4.0

Provost's Gold Scholarship

COURSEWORK

MATHEMATICS

Calculus I/II/III

Linear Algebra • Abstract Algebra

Numerical Method • Numerical Linear Algebra (Research Asst.) • Numerical Analysis

Mathematical Modeling • Combinatorics

Probability and Statistics • Probability Theory

Non-Euclidean Geometry

Foundations of Mathematics • Introduction to Analysis • Analysis

• Real Analysis and Measure Theory

Differential Equation

Complex Variable • Theory of Functions of a Complex Variable

COMPUTER SCIENCE

C++ Programming

Discrete Structures • Data Structures

Programming Algorithm • Foundations of Computing

Cyber Security

Mobile Application

Introduction to Programming and Applied Statistics in R

SKILLS

PROGRAMMING

Matlab • C++ • Bash • Maple • Lua • R • Python • \LaTeX

OPERATING SYSTEM

Windows: WinServer 2012 • Win10

Linux: Ubuntu • CentOS • Kali

LANGUAGE

Mandarin • English

RESEARCH

ITERATIVE METHODS | MATH DEPARTMENT UNDERGRAD RESEARCH

INSTRUCTOR: Dr. Ron Morgan

Jan – May 2017| Waco, TX

http://sites.baylor.edu/ronald_morgan/research-interests/

- Implement stochastic and non linear programming techniques in Matlab
- Focus on algorithm improvement to find eigenvalues for large matrices more efficiently
- Specially working on ritz values from Krylov subspace methods with symmetric, bidiagonal matrices

NUMERICAL LINEAR ALGEBRA | MASTER'S RESEARCH

ADVISOR: Dr. Agnieszka Międlar

Aug 2020 – May 2021| Lawrence, KS

<https://miedlar.ku.edu/research.html>

- Solving low-rank large matrix with randomness
- Aimed to create a tool box for matlab
- In progress

TEACHING

FALL 2020 - SPRING 2021 | TEACHING ASSISTANT | MATH 125

Math 125 Calculus I Lab for science major

FALL 2019 - SPRING 2020 | INSTRUCTOR | MATH 115

Online session Math 115 Calculus I for non-major

FALL 2018 - SPRING 2019 | TEACHING ASSISTANT | MATH 101

Kansas Algebra Program - College Algebra

EXPERIENCE

CYBEAR HACKFAST | 2017 BAYLOR UNIVERSITY 1ST CYBERDAY

Oct. 6 | Waco, TX

- Member of team CONFICKER

AWARDS

2015 - 2018 | PROVOST'S GOLD SCHOLARSHIP

2013 | NATIONAL PATENT

The first inventor and applicant of the national patent

< Ammonium chloride decomposition test tube for experimental teaching >
[CN203108560 (U)].

SOCIETY

2018 - PRESENT | SPONSORED STUDENT MEMBER | AMS

American Mathematical Society

2018 - PRESENT | SPONSORED STUDENT MEMBER | AWM

Association for Women in Mathematics

2017 - 2018 | MENTEE | GUMP

Graduate Undergraduate Mentorship Program for Math Major

COMMUNITY SERVICE

JAN - MAY 2013| HOUSTON CHINESE CHURCH

Duties: Assistant to HCC Chinese school classroom teachers, students, and organizers of cultural events.