Xiaowen Li

li33@usf.edu | 832.740.2091

EDUCATION

UNIVERSITY OF SOUTH FLORIDA
PhD in Computer Science
2021 - present | Tampa,FL

UNIVERSITY OF KANSAS
Master in Mathematics
2018 - 2021 | 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

Spring 2022 | Teaching Assistant | Emerging Topics in Network Security
CNT 6410 for graduate students
Spring 2022 | Teaching Assistant | Analysis of Algorithms
COT4400 for undergrads
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 - 2021 | Sponsored student member | AMS
American Mathematical Society
2018 - 2021 | 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.