Xiaowen Li

EDUCATION

UNIVERSITY OF SOUTH FLORIDA

PHD IN COMPUTER SCIENCE 2021 - present | Tampa,FL

UNIVERSITY OF KANSAS

MASTER OF ARTS 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

THESIS

1. Xiaowen Li, "Randomized Algorithms for Solving Singular Value Decomposition Problems with Matlab Toolbox", University of Kansas (Master's Thesis), May 2021.

RESEARCH

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
- Creating a tool box for Matlab
- Thesis can be found at https://www.proquest.com/docview/2835386429

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

TEACHING

SPRING 2023 | TEACHING ASSISTANT | COMPUTATIONAL GEOMETRY COT 4521 for undergrads

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

HONORS AND 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

2023 - CURRENT | GRADUATE STUDENT MEMBER | IEEE
The Institute of Electrical and Electronics Engineers
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