

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

PUBLICATIONS

1. Wenwei Zhao, Xiaowen Li, Shangqing Zhao, Jie Xu, Yao Liu, and Zhuo Lu, "Detecting Adversarial Spectrum Attacks via Distance to Decision Boundary Statistics," Proceedings of the IEEE Conference on Computer Communications (**INFOCOM**), May 2024.

RESEARCH

SECURITY IN MACHINE LEARNING | CURRENT RESEARCH

ADVISOR: Dr. Zhuo Lu, Dr. Yao Liu
Aug 2021 – Current | Tampa, FL
<https://csalab.site/research/>

- Working on adversarial attack and defense in Machine Learning Image Field
- In progress

NUMERICAL LINEAR ALGEBRA | MASTER'S RESEARCH

ADVISOR: Dr. Agnieszka Miedlar
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 | 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

HONORS AND AWARDS

2023 | CNS STUDENT TRAVEL GRANT

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

ACADEMIC SERVICE

REVIEWER EXPERIENCE

- Reviewer for IEEE INFOCOM, 2022

SECONDARY REVIEWER EXPERIENCE

- Secondary Reviewer for Usenix 2023; INFOCOM 2023; ACSAC 2023; S&P 2023; CNS 2022; S&P 2022; Hotmobile 2022.

Contributed to the peer review process by providing detailed evaluations and feedback for submitted papers in the field of Cyber Security.