

# SHANA YUNSHENG LI

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## EDUCATION

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<b>University of Illinois Urbana-Champaign</b>	2024 - Now
Ph.D. in Mathematics	Advisor: Nathan Dunfield
<b>Southern University of Science and Technology</b>	2022 - 2024
M.Sc in Mathematics (GPA: 3.8/4.0)	Advisor: Stavros Garoufalidis
<b>Southern University of Science and Technology</b>	2018 - 2022
B.Sc in Mathematics and Applied Mathematics with Honors (GPA: 3.87/4.0)	

## RESEARCH INTEREST

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Mathematical Physics; Low-dimensional Topology; Quantum Topology; Knot Theory.

## PUBLICATIONS

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<b>Autumn 2024</b>	Patterns in $V_2$ -polynomial of knots	arXiv:2409.03557
		Joint work with Stavros Garoufalidis
<b>Spring 2024</b>	Algebraic Aspects of Holomorphic Quantum Modular Forms	
	Research in Mathematical Sciences. 11 (2024) no. 3, Paper No. 54	
		Joint work with Ni An and Stavros Garoufalidis

## NOTES

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<b>Spring 2023</b>	Notes of Zelmanov's Algebraic Lectures
<b>Autumn 2021</b>	A Review From Manifolds to Basic de Rham Theory

## THESIS

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<b>Spring 2024</b>	On the Quantum Modularity Conjecture for Knots
<b>Spring 2022</b>	Foundation of Supergeometry and Its Application in Mathematical Physics

## SEMINARS

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<b>Spring 2024</b>	Seminar talk at the Graduate Topology Seminar (SUSTech)
	Topic: The Teichmüller TQFT and the Quantum Modularity Conjecture
<b>Autumn 2021</b>	Reading seminar of Bott & Tu's <i>Differential Forms in Algebraic Topology</i> .
<b>Autumn 2019</b>	Reading seminar of Riehl's <i>Category Theory in Context</i>

## TEACHING

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<b>Autumn 2022</b>	Teaching assistant of MA109 (Advanced Linear Algebra)
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## AWARDS

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<b>Spring 2024</b>	Outstanding Graduate Graduates Award
	Outstanding Master Thesis Award
<b>Autumn 2022</b>	Outstanding Teaching Assistant Award
<b>Spring 2022</b>	Outstanding Undergraduate Graduates Award
	Outstanding Undergraduate Thesis Award

## STUDENT ACTIVITIES

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**2019 - 2020**      Vice President of Mathematical Physics Club, SUSTech

## **OUTREACH - PIANO PERFORMANCES**

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<b>Autumn 2023</b>	“Moment · Eternity” Concert	Steinway Garden in Shenzhen Concert Hall
<b>Spring 2022</b>	“Youth Poetry and Music” Chamber Music Concert	Shenzhen Concert Hall
<b>Autumn 2021</b>	National Science & Technology University Aesthetic Education Seminar Concert	Steinway Garden in Shenzhen Concert Hall
<b>Autumn 2020</b>	Lang Lang’s Piano Masterclass	SUSTech 10th Anniversary
<b>Autumn 2019</b>	Haochen Zhang’s Piano Masterclass	