

Jishen Du

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EDUCATION

Rutgers, The State University of New Jersey

Ph.D., Mathematics | Advisor: Yi-Zhi Huang

New Jersey, the United States

09/2021 - Present

Beijing Normal University

B.S., Mathematics | Thesis Advisor: Wei Hu

one-year study in Physics

Beijing, China

09/2017 - 07/2021

09/2016 - 07/2017

PUBLICATIONS

1. J. Du, Y-Z. Huang, Twisted intertwining operators and tensor products of (generalized) twisted modules, arXiv:2501.15003. (Under review)
2. Ph.D. thesis. Twisted intertwining operator, tensor product of twisted modules, and their associativity. (in progress)

TALKS

AMS Sectional Meeting, Special Session on Recent Advances in Vertex Operator Algebras

10/19/2024

Towards G -crossed braided tensor category: twisted intertwining

University at Albany

operators, $P(z)$ -compatibility, and associativity of intertwining operators

Vertex Algebra, Tensor Category and Related Topics

10/19/2024

Towards G -crossed braided tensor category: skew symmetry

Shanghai Jiaotong University

isomorphism, $P(z)$ -compatibility, and associativity of intertwining operators

Lie Group/Quantum Mathematics Seminar

04/26/2024

Twisted intertwining operators and tensor products of (generalized) twisted modules

Rutgers University

Graduate Algebra and Representation Theory Seminar

10/13/2023

Integrable Highest Weight Modules, and Weyl-Kac Character Formula

Rutgers University

Graduate Algebra and Representation Theory Seminar

03/21/2022

A brief intro to BGG category and BGG resolution

Rutgers University

HONORS AND AWARDS

Jingshi Scholarship at Beijing Normal University (3 times)

Outstanding undergraduate thesis at Beijing Normal University

TEACHING EXPERIENCES

Instructor

Math 252: Elementary Differential Equations

Rutgers University, Summer 2023

Math 250: Introductory Linear Algebra

Rutgers University, Summer 2025

Teaching Assistant

Math 251: Multivariable Calculus

Rutgers University, Fall 2025

Math 252: Elementary Differential Equations (TA at large)

Rutgers University, Spring 2025

Math 135: Calculus I for the Life and Social Sciences

Rutgers University, Fall 2024

Math 481: Mathematical Theory of Statistics (TA at large)

Rutgers University, Spring 2024

Math 151: Calculus I for the Mathematical and Physical Sciences

Rutgers University, Fall 2023

Math 152: Calculus II for the Mathematical and Physical Sciences

Rutgers University, Spring 2023

Math 251: Multivariable Calculus

Rutgers University, Fall 2022

Mentor

Basic ∞ -category theory

Direct Reading Program, Rutgers University, Summer 2024