

Peixiang Tan

EDUCATION

University of California, Los Angeles <i>Bachelor of Science in Mathematics</i>	Los Angeles, United States <i>Jun. 2022</i>
University of Copenhagen <i>Master of Science in Mathematics</i>	Copenhagen, Denmark <i>Jul. 2024</i>
University of Amsterdam <i>Exchange</i>	Amsterdam, Netherlands <i>Fall. 2023</i>

INTERNSHIP & EXEPERIENCE

UC Davis, School of Medicine <i>Davis, United States</i>	Supervisor: Lihong Qi <i>Summer 2020</i>
<ul style="list-style-type: none">Conducted data analysis on the radiotherapy outcomes of patients using SASLearned and utilized the chi-square test, and examined whether the data results supported the related hypotheses	
E-Fund Management <i>Guangzhou, China</i>	<i>Summer 2022</i>
<ul style="list-style-type: none">In July 2022, participated in the E-Fund “2022 Elite Intern Training Camp” and received the “Outstanding Trainee” awardStudy the classical theory from Behavioral Finance through the book “Irrational Exuberance” and “A Random Walk Down Wall Street”Collect the data from China’s stock market and apply the theoriesMake and present a summary report “On Behavioral Finance”	

RESEARCH PROJECT

UCLA <i>Quantum Group and Coboundary Category</i>	<i>Summer 2022</i>
<ul style="list-style-type: none">We study the representation of quantized enveloping algebra of Kac-Moody Algebra $U_q(\mathfrak{g})$ when q is the root of unit or other complex numberwhen $q \rightarrow \infty$, we study the crystal base of $U_q(\mathfrak{g})$ and the coboundary structure of the category of crystal base	
University of Copenhagen <i>Quiver Representations and Coherent sheaves of \mathbb{P}^1</i>	Supervisor: Benjamin Briggs <i>Apr.-Aug. 2023</i>
<ul style="list-style-type: none">This project is about quiver representation and its connection to the derived category of coherent sheaf via Tilting theoryIn particular, we study Beilison’s thesis to show that there is a derived equivalence between coherent sheaf of \mathbb{P}^1 and representation of Kroneck quiver	
University of Copenhagen <i>A Beginner’s Guide on Support Theory via Tensor Triangulated Category</i>	Supervisor: Benjamin Briggs & Henrik Holm <i>Feb.-Jun. 2024</i>
<ul style="list-style-type: none">This is my master’s thesis. In this thesis, we study the Balmer spectrum of tensor triangulated category and how to generalize the associated support of the Balmer spectrum to rigidly-compactly generated tensor triangulated category.We also applied the machinery we developed to classify the localizing subcategory of $\mathcal{D}^{\text{per}}(R)$ when R is a noetherian ring	

SEMINAR TALK

La conjecture de Weil , University of Amsterdam	<i>Nov. 2023</i>
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SCHOLARSHIP

Erasmus Grant , Received from European Union	<i>Sep. 2023</i>
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CONFERENCE ATTENDED

Cluster Algebras and Representation Theory , University of Copenhagen	<i>Nov. 2022</i>
Topological Hochschild Homology and Zeta Values , University of Copenhagen	<i>Jan. 2023</i>
Continuous K-Theory , University of Copenhagen	<i>Jun. 2024</i>
Rank Conjectures Across Algebra and Topology , University of Copenhagen	<i>Jun. 2024</i>

COURSES & SKILLS

Probability Theory, C++, Java, Network Science and Graph theory, Automorphic Form, Functional Analysis, Real Analysis, Complex Analysis, Rational Point of Variety, Automorphic Form
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