

KEWEI PAN

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EDUCATION

Institut de Mathématiques de Toulouse, Université de Toulouse *Oct.2023 - Present*

PhD thesis: Boolean entropy

advised by Guillaume Cébron, Institut de Mathématiques de Toulouse

co-advised by Djalil Chafaï, École normale supérieure(Paris)-PSL

Université de Toulouse *Sept.2022 - Jul.2023*

Master: M2 Research & Innovation program in Institute of Mathematics in Toulouse

Main Courses Mark:

Convergence of Probability Measure: 19.0/20.0

Stochastic Calculus: 20.0/20.0

Random Matrices and Free Probability: 19.5/20.0

University of Science and Technology of China(USTC) *Sept.2018 - Jun.2022*

B.S. in Mathematics in School of Mathematical Science

Major GPA: 3.80/4.30 — Curriculum GPA: 3.60/4.30 — Weighted Average Mark: 86.82/100.00

INTERESTS AND SKILLS

Interested Fields	Random Matrices, Functional inequalities, Statistical Physics
Programming Languages	Python, C/C++, R, MATLAB
Software & Tools	LaTeX, Office, Mathematica
Language	Chinese (native), English (fluent) Toeic(98/120), French (beginner) B1
Teaching	TA on "Linear Algebra" at USTC in Spring semester 2022

ACHIEVEMENTS AND AWARDS

LabEx CIMI et EUR MINT Funding	<i>Oct.2023</i>
CIMI Fellowship for M2 program	<i>Sept.2022</i>
USTC's Excellent Student Award	<i>Fall 2018,2020,2021</i>
USTC's Endeavour Award	<i>Fall 2021</i>
2 nd Award in Chinese Mathematics Competition(CMC)	<i>Fall 2019</i>

TALKS

Voiculescu's Probabilistic Operator Algebras Seminar, online	<i>Mar.2026</i>
GDR Mega Autumn school, <i>Les Plantiers</i> France	<i>Oct.2025</i>
Journée de rentrée 2024 de l'équipe Probabilités, IMT, Toulouse	<i>Oct.2024</i>

LIST OF PUBLICATIONS

An entropy for Boolean independence, Kewei Pan arxiv:2505.07907, 2025 [\[PDF\]](#)

Functional inequalities for Boolean entropy, Guillaume Cébeon, Kewei Pan arxiv:2602.23527, 2026 [\[PDF\]](#)