

FEIYAN MA

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EDUCATION

Tsinghua University
Undergraduate at Weiyang College
Major in Mathematics and Physics

Sep. 2021 - Jun. 2026 (expected)
Overall GPA: 3.88/4.00

SKILLS

Programming R, Python, \LaTeX , Git
Language Chinese (native), English (TOEFL 108 [R30/L26/S23/W29]), French

PUBLICATIONS & MANUSCRIPTS

(indicates equal contribution.)*

(**ICLR 2025**) Xinyuan Fan*, Feiyan Ma*, Chenlei Leng, Weichi Wu. “Additive Seperable Graphon Models”. [\[link\]](#)

RESEARCH EXPERIENCE

Additive Seperable Graphon Models
Supervised by Prof. Weichi Wu

Mar 2024 - Dec 2024
DSDS, Tsinghua University

- We use the additive separable model as a parsimonious representation of the graphon, capable of generating a low-rank connection probability matrix for network data.
- We develop an efficient estimation approach that leverages subgraph counts to estimate the low-rank connection matrix and uses interpolation to recover the graphon functions, achieving the minimax optimal estimation rate. This model effectively addresses the well-known identification challenges associated with graphon functions.
- We provide the convergence rate of our method, and validate its computational efficiency and estimation accuracy through comprehensive simulation studies.

RELEVANT COURSES

Undergraduate Core Courses: Probability Theory (1) (A+), Measures and Integrals (A), Numerical Analysis (A), Basic Functional Analysis (A), Linear Regression Analysis (A-), Statistical Inference (A-), Reliability Data and Survival Analysis (A), ...

Other Relevant Courses: Abstract Algebra (A), Topology (A), Differential Geometry (A), Financial Statistics (A+), Operation Research (A), Intro to Biostatistics (A), Intro to Optimization Theory (A-), Topics in Logics (A), Advanced Topics in Linear Algebra (A-), ...

Graduate-Level Courses: Advanced Mathematical Statistics I (A), Advanced Mathematical Statistics II (A-), Computational Probability (A), Probability (2) (B+)

HONORS & AWARDS

Honorable Mention , 2024 Mathematical Contest in Modeling	Feb 2024
Gold Medal , The 19th China Girls Mathematical Olympiad (CGMO)	Aug 2020
First Prize , National High School Mathematics League, Shanghai Region	Sep 2020