

Stanford

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Ph.D. Student in Mathematics, admitted Autumn 2019

Publications

PUBLICATIONS

- **Extreme values of Dirichlet polynomials with multiplicative coefficients** *JOURNAL OF NUMBER THEORY*
Xu, M., Yang, D.
2024; 258: 173-180
- **Discrepancy of arithmetic progressions in grids** *MATHEMATIKA*
Fox, J., Xu, M., Zhou, Y.
2024; 70 (1)
- **CENTRAL LIMIT THEOREMS FOR RANDOM MULTIPLICATIVE FUNCTIONS** *JOURNAL D ANALYSE MATHEMATIQUE*
Soundararajan, K., Xu, M.
2023; 151 (1): 343-374
- **On the random Chowla conjecture** *GEOMETRIC AND FUNCTIONAL ANALYSIS*
Klurman, O., Shkredov, I. D., Xu, M.
2023
- **ON A TURAN CONJECTURE AND RANDOM MULTIPLICATIVE FUNCTIONS** *QUARTERLY JOURNAL OF MATHEMATICS*
Angelo, R., Xu, M.
2022
- **Discrepancy in modular arithmetic progressions** *COMPOSITIO MATHEMATICA*
Fox, J., Xu, M., Zhou, Y.
2022; 158 (11): 2082-2108
- **Universality for Low-Degree Factors of Random Polynomials over Finite Fields** *INTERNATIONAL MATHEMATICS RESEARCH NOTICES*
He, J., Huy Tuan Pham, Xu, M.
2022
- **Multicolor list Ramsey numbers grow exponentially** *JOURNAL OF GRAPH THEORY*
Fox, J., He, X., Luo, S., Xu, M.
2022
- **Mixing time of fractional random walk on finite fields** *ELECTRONIC JOURNAL OF PROBABILITY*
He, J., Pham, H., Xu, M.
2022; 27
- **Irreducibility of Random Polynomials of Bounded Degree** *DISCRETE ANALYSIS*
Huy Tuan Pham, Xu, M.
2021
- **A NOTE ON THE ERDOS DISTINCT SUBSET SUMS PROBLEM** *SIAM JOURNAL ON DISCRETE MATHEMATICS*
Dubroff, Q., Fox, J., Xu, M.
2021; 35 (1): 322–24
- **A robust version of Freiman's 3k-4 Theorem and applications** *MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY*
Shao, X., Xu, W.

2019; 166 (3): 567-581

- **Popular differences and generalized Sidon sets** *JOURNAL OF NUMBER THEORY*
Xu, W.
2018; 186: 103-120