

LIN FENG

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EDUCATION

- **Nankai University, China** *Aug 2019 - Present*
Undergraduate in Mathematics (Poling Class)

RESEARCH INTEREST

- **Number Theory and Arithmetic Geometry**

PUBLICATIONS¹

1. Lin Feng, Huixi Li and Biao Wang. Distribution of Monomial-Prime Numbers and Mertens Sum Evaluations. Submitted. (2022)
2. Lin Feng, Lei Li, Junming Zhang and Yuanming Zhang. Inequalities Related to The S-Divergence. Accepted, Note di Matematica. (2022)
3. Bo Liu, Pu Xing, Song Ding, Mingjun Xie, Lin Feng and Xiaotian Shi. A New Preconditioning Algorithm for Compressible Flow. Acta Physica Sinica, 71(12) (2022): 70-85.

PROJECTS²

- **On the Distribution of the Numbers of the Form $n^2p + 2^k$** *Oct 2021 - Dec 2021*
- **Financial Technology and Total Factor Productivity of Commercial Banks from the Aspects of Dynamic Effect, Heterogeneity Analysis and Game Theory** *Mar 2021 - Mar 2022*

TALKS

- **Hua Loo-Keng Center for Mathematical Sciences.** Online. Beijing. *October 10, 2022*
Title: *Distribution of Monomial-Prime Numbers and Mertens Sum Evaluations*
- **Undergraduates Lecture Series.** Online. Nankai University, Tianjin. *October 06, 2022*
Title: *Distribution of Monomial-Prime Numbers and Mertens Sum Evaluations*
- **Seminar on Commutative Algebra.** Nankai University, Tianjin. *May 12, 2022*
Title: *Dirichlet's Unit Theorem*

SEMINARS & SUMMER SCHOOLS

- **Seminar on Analytic Number Theory** *Oct 2022 - Present*
Attended some lectures and learned Iwaniec-Kowalski's *Analytic Number Theory*
- **Seminar on Representation Theory and Lie Theory** *Oct 2022 - Present*
Attended some lectures related to Representation Theory and Lie Theory
- **Seminar on Commutative Algebra** *Mar 2022 - Jun 2022*
Attended some lectures related to Commutative Algebra
- **Seminar on Algebraic Number Theory** *Oct 2021 - Dec 2021*
Learned Matt Baker's *Algebraic Number Theory*

¹For the papers, please see my homepage

²For the details, papers or reports, please see my homepage

- **Summer School of Differential Geometry, Peking University** *Aug 2021*
Learned Second Order Elliptic Linear PDE, Complex Geometry, and Riemannian Geometry
- **Seminar on Positive Definite Matrices** *Mar 2021 - Jun 2021*
Learned Rajendra Bhatia's *Positive Definite Matrices*
- **Seminar on Commutative Algebra** *Mar 2021 - Jun 2021*
Learned Atiyah's *Introduction to Commutative Algebra*
- **Seminar on Abstract Algebra** *Oct 2020 - Dec 2020*
Learned Jacobson's *Basic Algebra I*

AWARDS & SCHOLARSHIPS

- Scholarship of Public Interest and All-round Capability, Nankai University *2022*
- Mathematical Contest In Modeling, Honorable Mention *2022*
- Chinese Mathematics Competitions, Tianjin Division, First Prize (Mathematics major, class A) *2021*
- Scholarship of Public Interest and All-round Capability, Nankai University *2020*
- Tianjin Mathematics Culture Festival Micro Classroom Competition, First Prize *2019*