

# LIN FENG

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## EDUCATION

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

## RESEARCH INTEREST

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- **Number Theory**, especially Analytic Number Theory and something about Arithmetic Geometry.

## PUBLICATIONS<sup>1</sup>

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1. Lin Feng, Huixi Li, Biao Wang. Distribution of Monomial-Prime Numbers and Mertens Sum Evaluations. Submitted. (2022)
2. Bo Liu, Pu Xing, Song Ding, Mingjun Xie, Lin Feng, Xiaotian Shi. A New Preconditioning Algorithm for Compressible Flow. *Acta Physica Sinica*, 71(12) (2022): 70-85.

## PROJECTS<sup>2</sup>

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- **Financial Technology and Total Factor Productivity of Commercial Banks: A Study from the Aspects of Dynamic Effect, Heterogeneity Analysis and Game Theory** *Mar 2021 - Mar 2022*
- **A Study on The distribution of the numbers of the form  $n^2p + 2^k$**  *Oct 2021 - Dec 2021*
- **A Study on Inequalities Related to The S-Divergence** *Jul 2021 - Aug 2021*

## TALKS

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- **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

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- **Seminar on Commutative Algebra** *Mar 2022 - Jun 2022*  
Learned some lectures related to Commutative Algebra
- **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 Algebraic Number Theory** *Oct 2021 - Dec 2021*  
Learned Matt Baker's *Algebraic Number Theory*
- **Seminar on Commutative Algebra** *Mar 2021 - Jun 2021*  
Learned Atiyah's *Introduction to Commutative Algebra*

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<sup>1</sup>For the papers, please see my homepage

<sup>2</sup>For the details, papers or reports, please see my homepage

- **Seminar on Abstract Algebra**  
Learned Jacobson's *Basic Algebra I*

*Oct 2020 - Dec 2020*

## **AWARDS & SCHOLARSHIPS**

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