

Education

- 2023 – now **International Curriculum Center (ICC), The High School Affiliated to Renmin University of China**, Beijing, China
High School Student
- 2020 – 2023 **The High School Affiliated to Renmin University of China**, Beijing, China
Secondary School Student

Publications

- 1 **Runbo Li**. A remark on the distribution of \sqrt{p} modulo one involving primes of special type. *Hiroshima Mathematical Journal*. (to appear).

Preprints

- 30 **Runbo Li**. Bombieri–Vinogradov Theorem in shorter intervals. *Preprints*. [preprints202511.0089.v1](#).
- 29 **Runbo Li**. Primes in almost all short intervals II. *Cambridge Open Engage*. [10.33774/coe-2025-jrnjl](#).
- 28 **Runbo Li**. On Chen's theorem, Goldbach's conjecture and almost prime twins III. *Cambridge Open Engage*. [10.33774/coe-2025-5kl50](#).
- 27 **Runbo Li**. An average Brun–Titchmarsh theorem and shifted primes with a large prime factor. *arXiv*. [arXiv:2508.18285v3](#).
- 26 **Runbo Li**. On the weighted AM-GM inequality and refined inequalities between arithmetic functions. *Preprints*. [preprints202511.0246.v1](#).
- 25 **Runbo Li**. On the exceptional set in the abc conjecture. *arXiv*. [arXiv:2507.02885v1](#).
- 24 **Runbo Li**. On the largest prime factor of integers in short intervals II. *Cambridge Open Engage*. [10.33774/coe-2025-xnbjq-v2](#).
- 23 **Runbo Li**. On Chen's theorem, Goldbach's conjecture and almost prime twins II. *arXiv*. [arXiv:2405.05727v4](#).
- 22 **Runbo Li**. On the largest prime factor of quadratic polynomials. *arXiv*. [arXiv:2406.07575v2](#).

- 21 **Runbo Li.** A remark on the distribution of \sqrt{p} modulo one involving primes of special type II. *arXiv.* [*arXiv:2401.01351v3*](#).
- 20 **Runbo Li.** Largest square divisors of shifted primes. *arXiv.* [*arXiv:2505.23779v2*](#).
- 19 **Runbo Li.** On the generalized Dirichlet divisor problem. *Preprints.* [*preprints202505.1432.v3*](#).
- 18 **Runbo Li.** On almost primes in Piatetski–Shapiro sequences. *arXiv.* [*arXiv:2505.09634v1*](#).
- 17 **Runbo Li.** Primes in arithmetic progressions to smooth moduli: A minorant version. *arXiv.* [*arXiv:2505.09629v2*](#).
- 16 **Runbo Li.** On prime-producing sieves and distribution of $\alpha p - \beta \bmod 1$. *arXiv.* [*arXiv:2504.13195v3*](#).
- 15 **Runbo Li.** A note on variants of Buchstab’s identity. *arXiv.* [*arXiv:2504.07974v1*](#).
- 14 **Runbo Li.** The number of primes in short intervals and numerical calculations for Harman’s sieve. *arXiv.* [*arXiv:2308.04458v8*](#).
- 13 **Runbo Li.** On the Piatetski–Shapiro prime number theorem II. *Preprints.* [*preprints202504.1165.v2*](#).
- 12 **Runbo Li.** On the Piatetski–Shapiro prime number theorem. *Preprints.* [*preprints202504.1190.v1*](#).
- 11 **Runbo Li.** On the largest prime factor of integers in short interval. *Preprints.* [*preprints202504.1212.v2*](#).
- 10 **Runbo Li.** Primes in almost all short intervals. *arXiv.* [*arXiv:2407.05651v6*](#).
- 9 **Runbo Li.** On the primitive divisors of quadratic polynomials. *arXiv.* [*arXiv:2406.07575v1*](#).
- 8 **Runbo Li.** On Chen’s theorem, Goldbach’s conjecture and almost prime twins. *arXiv.* [*arXiv:2405.05727v3*](#).
- 7 **Runbo Li.** On a conjecture involving twin practical numbers. *Preprints.* [*preprints202504.1211.v1*](#).
- 6 **Runbo Li.** A remark on large even integer of the form $p + P_3$. *arXiv.* [*arXiv:2403.09691v1*](#).

- 5 **Runbo Li.** Hybrid estimation of exponential sums, exceptional characters and primes in short intervals. *arXiv.* *arXiv:2401.11139v3.*
- 4 **Runbo Li.** Remarks on additive representations of natural numbers. *arXiv.* *arXiv:2309.03218v7.*
- 3 **Runbo Li.** A remark on the distribution of \sqrt{p} modulo one involving primes of special type. *arXiv.* *arXiv:2401.01351v1.*
- 2 **Runbo Li.** On the upper and lower bound orders of almost prime triples. *arXiv.* *arXiv:2401.01348v1.*
- 1 **Runbo Li.** On some problems of primes with the floor function. *arXiv.* *arXiv:2308.16301v1.*

Manuscripts

- 1 **Runbo Li.** Primes in almost all short intervals III. *preprint.*

Talks

- 3 Primes in short intervals. *Online Meeting Invited Speaker.* Online. 21 July 2025.
- 2 On the Goldbach's conjecture. *2025 'Haidian π Mathematics Festival' Closing Ceremony Research Presentation.* The High School Affiliated to Beijing Institute of Technology. 4 July 2025.
- 1 On Chen's theorem, Goldbach's conjecture and applications of sieve methods. *S.-T. Yau High School Science Award (Mathematics) Global Final Research Report.* Tsinghua University. 7 December 2024.