

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

- 28 **Runbo Li.** Primes in almost all short intervals II. *Cambridge Open Engage*. [10.33774/coe-2025-jrnjl](https://doi.org/10.33774/coe-2025-jrnjl).
- 27 **Runbo Li.** On Chen's theorem, Goldbach's conjecture and almost prime twins III. *Cambridge Open Engage*. [10.33774/coe-2025-5kl50](https://doi.org/10.33774/coe-2025-5kl50).
- 26 **Runbo Li.** An average Brun–Titchmarsh theorem and shifted primes with a large prime factor. *arXiv*. [arXiv:2508.18285v3](https://arxiv.org/abs/2508.18285).
- 25 **Runbo Li.** On the exceptional set in the abc conjecture. *arXiv*. [arXiv:2507.02885v1](https://arxiv.org/abs/2507.02885).
- 24 **Runbo Li.** On the largest prime factor of integers in short intervals II. *Cambridge Open Engage*. [10.33774/coe-2025-xnbjq-v2](https://doi.org/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](https://arxiv.org/abs/2405.05727).
- 22 **Runbo Li.** On the largest prime factor of quadratic polynomials. *arXiv*. [arXiv:2406.07575v2](https://arxiv.org/abs/2406.07575).
- 21 **Runbo Li.** A remark on the distribution of \sqrt{p} modulo one involving primes of special type II. *arXiv*. [arXiv:2401.01351v3](https://arxiv.org/abs/2401.01351).
- 20 **Runbo Li.** Largest square divisors of shifted primes. *arXiv*. [arXiv:2505.23779v2](https://arxiv.org/abs/2505.23779).

- 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 $\alpha p - \beta \pmod{1}$. *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.*

Other works

- 3 **Runbo Li.** Bombieri–Vinogradov Theorem in shorter intervals. *preprint.*
- 2 **Runbo Li.** Primes in almost all short intervals III. *preprint.*
- 1 **Runbo Li.** On the weighted AM-GM inequality and refined inequalities between arithmetic functions. *preprint.*

Talks

- 3 Primes in short intervals. *Online Meeting Invited Speaker.* Online. 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. 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. 2024.