

Curriculum Vita of Shizhang Li

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Morningside Center of Mathematics
Chinese Academy of Sciences
MCM Building 506
No.55, Zhongguancun East Road
Beijing, 100190, China
lishizhang@amss.ac.cn

PERSONAL DATA

Date of Birth: February 8th, 1992
Citizenship: China

EDUCATION

Columbia University (New York City, New York, United States)
Doctor of Philosophy in Mathematics, September 2014 — May 22nd, 2019
Advisor: Aise Johan de Jong

Zhejiang University (Hangzhou, Zhejiang, China)
Bachelor of Science in Mathematics, September 2010 — June 2014

EMPLOYMENT

June 2022 — Present
Associate Professor, Morningside Center of Mathematics, Academy of Mathematics
and Systems Science, Chinese Academy of Sciences

2023-2024 academic year
Member, Institute for Advanced Study. Office: S-026

September 1st 2019 — May 31st 2022
Donald J. Lewis Research Assistant Professor, University of Michigan

GRANTS AND AWARDS

1. AMS-Simons Travel Grant, 2021-2022.
2. partial support from National Natural Science Foundation of China (No. 12288201).

PAPERS AND PREPRINTS

17. Bounding crystalline torsion from étale torsion (with Ofer Gabber), [arXiv](#).

16. Relative Poincaré duality in nonarchimedean geometry (with Emanuel Reinecke and Bogdan Zavyalov), [arXiv](#).
15. Frobenius height of prismatic cohomology with coefficients (with Haoyang Guo), [arXiv](#).
14. On the u^∞ -torsion submodule of prismatic cohomology (with Tong Liu), [arXiv](#). *Compositio Mathematica*, Volume 159, Issue 8, August 2023, pp. 1607-1672, doi: <https://doi.org/10.1112/S0010437X23007261>.
13. Exponentially twisted de Rham cohomology and rigid cohomology (with Dingxin Zhang), [arXiv](#). *Math. Ann.* 390, 639–670 (2024), doi: <https://doi.org/10.1007/s00208-023-02772-x>.
12. On endomorphisms of the de Rham cohomology functor (with Shubhodip Mondal), [arXiv](#). *Geom. Topol.* 28 (2024), no. 2, 759–802, doi: 10.2140/gt.2024.28.759.
11. Totaro’s inequality for classifying spaces (with Bhargav Bhatt), [arXiv](#).
10. Comparison of prismatic cohomology and derived de Rham cohomology (with Tong Liu), [arXiv](#). *J. Eur. Math. Soc.* 27 (2025), no. 1, pp. 183–268, doi: 10.4171/JEMS/1377.
9. Period sheaves via derived de Rham cohomology (with Haoyang Guo), [arXiv](#). *Compositio Mathematica*, Volume 157, Issue 11, November 2021, pp. 2377-2406, doi: <https://doi.org/10.1112/S0010437X21007545>.
8. A counterexample to an optimistic guess about étale local systems (with Brian Lawrence), [arXiv](#). *C. R. Math. Acad. Sci. Paris* 359 (2021), 923-924, doi: 10.5802/crmath.229.
7. Integral p-adic Hodge filtrations in low dimension and ramification, [arXiv](#). *J. Eur. Math. Soc.* 24 (2022), no. 11, pp. 3801–3827, doi: 10.4171/JEMS/1237.
6. Unobstructedness of deformations of Calabi—Yau varieties with a line bundle (with Xuanyu Pan), [arXiv](#).
5. An example of liftings with different Hodge numbers, [arXiv](#), *Mathematical Research Letters*, Vol. 27, No. 3 (2020), pp. 835-844, doi: <https://dx.doi.org/10.4310/MRL.2020.v27.n3.a10>.
4. Logarithmic de Rham comparison for open rigid spaces (with Xuanyu Pan), [arXiv](#), *Forum Math. Sigma*, volume 7 (2019), e32, doi: 10.1017/fms.2019.27.
3. Line bundles on rigid varieties and Hodge symmetry (with David Hansen), [arXiv](#), *Mathematische Zeitschrift* 296, 1777-1786 (2020), doi: <https://doi.org/10.1007/s00209-020-02535-3>.
2. Semistable reduction for multi-filtered vector spaces, [arXiv](#).
1. On rigid varieties with projective reduction, [arXiv](#), *J. Algebraic Geom.* 29 (2020), 669-690, doi: <https://doi.org/10.1090/jag/740>.

SOME ACADEMIC ACTIVITIES

I was on the thesis committee of:

Haoyang Guo, Emanuel Reinecke.

I refereed for:

Advances in Mathematics, Algebra & Number Theory, Compositio Mathematica, Inventiones Mathematicae, International Mathematics Research Notices, Journal of the American Mathematical Society, Journal of the Institute of Mathematics of Jussieu, Journal of Pure and Applied Algebra, Mathematische Annalen, Memoirs of the American Mathematical Society, Michigan Mathematical Journal, Transactions of the American Mathematical Society.

I wrote reviews for:

Mathscinet.