

## Publications of Shou-Wu Zhang

1. Gerd Faltings, *Lectures on the arithmetic Riemann-Roch theorem*. Notes were taken by Shouwu Zhang. *Annals of Mathematics Studies*, 127. (1992). x+100 pp.
2. *Positive line bundles on arithmetic surfaces*. *Ann. of Math.* (2) 136 (1992), no. 3, pp 569–587.
3. *Admissible pairing on a curve*. *Invent. Math.* 112 (1993), no. 1, pp 171–193.
4. *Geometric reductivity at Archimedean places*. *Internat. Math. Res. Notices* 1994, no. 10, 425 ff., approx. 9 pp.
5. *Positive line bundles on arithmetic varieties*. *J. Amer. Math. Soc.* 8 (1995), no. 1, pp 187–221.
6. *Small points and adelic metrics*. *J. Algebraic Geom.* 4 (1995), no. 2, 28100
7. *Heights and reductions of semi-stable varieties*. *Compositio Math.* 104 (1996), no. 1, pp 77–105.
8. (with Lucien Szpiro, Emmanuel Ullmo) *Équirépartition des petits points*. *Invent. Math.* 127 (1997), no. 2, pp 337–347.
9. *Heights of Heegner cycles and derivatives of L-series*. *Invent. Math.* 130 (1997), no. 1, pp 99–152.
10. *Equidistribution of small points on abelian varieties*. *Ann. of Math.* (2) 147 (1998), no. 1, pp 159–165. [pdf](#)
11. *Small points and Arakelov theory*. *Proc. of ICM, Doc. Math.* 1998, Extra Vol. II, pp 217–225 (electronic).
12. (with Dorian Goldfeld) *The holomorphic kernel of the Rankin-Selberg convolution*. *Asian J. Math.* 3 (1999), no. 4, pp 729–747.
13. *Distribution of almost division points*. *Duke Math. J.* 103 (2000), no. 1, pp 39–46.
14. *Heights of Heegner points on Shimura curves*. *Ann. of Math.* (2) 153 (2001), no. 1, pp 27–147.

15. *Geometry of algebraic points*. First International Congress of Chinese Mathematicians (Beijing, 1998), pp 185–198, AMS/IP Stud. Adv. Math., 20 (2001).
16. *Gross-Zagier formula for  $GL_2$* . Asian. J. Math. 5 (2001), no. 2, pp 183–290.
17. *Elliptic curves, L-functions, and CM-points*. Current developments in mathematics, 2001, pp 179–219, Int. Press, Somerville, MA, 2002.
18. Henri Darmon and Shou-Wu Zhang (eds) *Heegner points and Rankin L-series*. MSRI Publications, 49.
19. *Gross-Zagier formula for  $GL(2)$ . II*. Heegner points and Rankin L-series, pp 191–214, MSRI Publications, 49.
20. *Equidistribution of CM-points on quaternion Shimura varieties*. IMRN 2005, no. 59, pp 3657–3689.
21. (with Dihua Jiang and Jianshu Li) *Periods and distribution of cycles on Hilbert modular varieties*. Pure Appl. Math. Q. 2 (2006), no. 1, pp 219–277.
22. *Distributions in Algebraic Dynamics*. Surveys in differential geometry. Vol. X, pp 381–430, Int. Press, Somerville, MA, 2006.
23. (with Johan de Jong) *Generic abelian varieties with real multiplication are not Jacobians*. Diophantine geometry, 165–172, CRM Series, 4, Ed. Norm., Pisa, 2007.
24. (with Xinyi Yuan and Wei Zhang) *The Gross–Kohnen–Zagier Theorem over Totally Real Fields*. Compositio Math. 145 (2009), pp 1147–1162.
25. *Gross–Schoen cycles and Dualising sheaves*. Invent. Math. 179 (2010), no. 1, pp 1–73.
26. *Positivity of heights of codimension two cycles over function fields of characteristic 0*.
27. *Arithmetic of Shimura curves*. Sci. China Math. 53 (2010), no. 3, 573–592.
28. (with Dragos Ghioca and Thomas J. Tucker) *Towards a dynamical Manin–Mumford conjecture*. IMRN 2011, no. 22, pp 5109–5122.
29. (with Xinyi Yuan and Wei Zhang) *The Gross–Zagier formula on Shimura curves*. Annals of Mathematics Studies, vol 184. (2013) viii+272 pages. **Erratum**.
30. (with Xinyi Yuan) *The arithmetic Hodge index theorem for adelic line bundles*. Math. Ann. (2017) 367, pp1123–1171

31. (with Ye Tian and Xinyi Yuan) *Genus periods, genus points, and congruent number problem*. Asian J. Math. (2017) 21, No. 4, pp. 721–774.
32. (with Yifeng Liu and Wei Zhang) *A  $p$ -adic Waldspurger formula*. Duke Mathematical Journal 167 (2018), No. 4, pp743–833
33. (with Xinyi Yuan) *On the Averaged Colmez Conjecture*. Annals of Mathematics (2018) 187, No.2, pp 533–638 [Erratum](#)
34. *Linear forms, algebraic cycles, and derivatives of  $L$ -series*. Sci. China Math. 62 (2019), no. 11, 2401–2408.
35. *Standard Conjectures and Height Pairings*, Manuscript 2021, 44 pages,
36. (with Xinyi Yuan) *Adelic line bundles over quasi-projective varieties*, Manuscript 2021, 224 pages,
37. (with Xinyi Yuan) *The arithmetic Hodge index theorem for adelic line bundles II*, Manuscript, 2021, 28 pages,
38. *Height pairings for algebraic cycles on the product of a curve and a surface*, Manuscript 2021, 18 pages,
39. (with Xinyi Yuan and Wei Zhang) *Triple product  $L$ -series and Gross–Kudla–Schoen cycles* Manuscript 119 pages