

CURRICULUM VITAE

1. EDUCATION

- 09/2010 to 07/2015 Ph.D in MATHEMATICS,
University of Chinese Academy of Sciences.
09/2006 to 07/2010 B.Sc in MATHEMATICS,
Wuhan University.

2. WORKING EXPERIENCE

- 01/2025 to now ASSOCIATE PROFESSOR,
BIMSA.
09/2018 to 12/2024 ASSISTANT PROFESSOR,
YMSC, Tsinghua University.
09/2015 to 09/2018 POSTDOC,
YMSC, Tsinghua University.

3. LIST OF PUBLICATIONS

- (1) *Quadratic twists of elliptic curves*
WITH JOHN COATES, YE TIAN AND SHUAI ZHAI.
Proc. Lond. Math. Soc. (3) 110 (2015), no. 2, 357–394
- (2) *Special automorphisms on Shimura curves and non-triviality of Heegner points*
WITH LI CAI AND ZHANGJIE WANG.
Sci. China Math. 59 (2016), no. 7, 1307–1326
- (3) *Analogues of Iwasawa's $\mu = 0$ conjecture
and weak Leopoldt theorem for certain non-cyclotomic \mathbb{Z}_2 -extensions*
WITH JUNHWA CHOI AND YUKAKO KEZUKA.
Asian J. Math. 23 (2019), no. 3, 383–400.
- (4) *Non-vanishing theorems for central L -values of some elliptic curves with complex multiplication*
WITH JOHN COATES
Proc. Lond. Math. Soc. (3) 121 (2020), no. 6, 1531–1578.
- (5) *A classical family of elliptic curves having rank one
and the 2-primary part of their Tate-Shafarevich group
non-trivial*
WITH YUKAKO KEZUKA
Doc. Math. 25 (2020), 2115–2147.
- (6) *Quadratic twists of $X_0(14)$*
WITH JUNHWA CHOI
J. Number Theory 224 (2021), 142–164.
- (7) *Classical Iwasawa theory and infinite descent on a family of abelian varieties*
WITH JOHN COATES AND JIANING LI
Selecta Math. (N.S.) 27 (2021), no. 2, Paper No. 28, 36 pp.
- (8) *Selmer groups of certain abelian varieties with complex multiplication*
Acta Arith. 203 (2022), no. 4, 289–305.
- (9) *Some remarks on p -adic L -functions for certain abelian varieties with complex multiplication*
Int. J. Number Theory. 20 (2024), no. 1, 159–184.
- (10) *An application of Birch-Tate formula to tame kernels of real quadratic number fields.*
WITH LI-TONG DENG
Proc. Indian Acad. Sci. Math. Sci. 134 (2024), no. 2, Paper No. 26.
- (11) *On the Birch-Swinnerton-Dyer conjecture of elliptic curves over \mathbb{Q} with complex multiplication.*
WITH YU LIU AND YE TIAN
SCIENTIA SINICA Mathematica.

4. LIST OF PREPRINTS

- (1) *Non-vanishing of central L -values of the Gross family of elliptic curve*
WITH YUKAKO KEZUKA
arXiv: 2305.08689; Submitted.
- (2) *Quadratic forms, K -groups and L -values of elliptic curves.*
WITH LI-TONG DENG AND SHUAI ZHAI
arXiv:2312.08269; Submitted.
- (3) *Non-commutative Iwasawa theory of abelian varieties over global function fields.*
WITH LI-TONG DENG, YUKAKO KEZUKA AND MENG FAI LIM
arXiv:2405.20963; Submitted.