

# CURRICULUM VITAE

**Kewei Zhang**

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## 1 Personal Data

Date of birth: January 4, 1992  
Nationality: Chinese  
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Sex: Male

## 2 Fields of Interest

- Geometric Analysis
- Complex Analysis
- Algebraic Geometry

## 3 Education

- Ph.D. in Mathematics, Peking University, 2014-2019.  
Advisor: Xiaohua Zhu  
(Visiting Student, University of Maryland, August 2017 – August 2018.  
Advisor: Yanir Rubinstein)
- B.S. in Mathematics and Applied Mathematics, Shanghai Jiaotong University of China, 2010-2014.

## 4 Honors and Awards

- National Scholarship for Graduate Student (China), 2018.

- President Scholarship for Graduate Student of Peking University (China), 2014–2017.
- Special Scholarship for Graduate Student of Peking University (China), 2016.

## 5 Invited Talks

- Basis divisors and balanced metrics, ZAG Marathon, September 01, 2020.
- Delta invariants and canonical metrics, Tongji University Zoom seminar, July 30, 2020.
- Partial  $C^0$  estimates on polarized Kähler manifolds, Postech, Pohang, Korea, November 20, 2019.
- Recent progress on the partial  $C^0$  estimate, Chinese Academy of Sciences, November 13, 2019.
- Recent progress on the partial  $C^0$  estimate, School of Mathematical Sciences, Shanghai Jiaotong university, November 01, 2019.
- Delta invariant and K-stability of Fano type manifolds, Yau Mathematical Sciences Center, Tsinghua University, October 09, 2019.
- Remarks on the asymptotically log Fano pairs, Institute of Mathematical Sciences, ShanghaiTech University, June 13, 2019.
- Local intersection inequalities and log canonical thresholds, National Research University, Higher School of Economics, Moscow, Russia, April 11, 2019.
- Delta invariant and its computation, School of Mathematical Sciences, Xiamen University, March 23, 2019.
- Stability Thresholds on Fano type manifolds, School of Mathematical Sciences, Zhejiang University, August 29, 2018.

## 6 Teaching Experience

Teaching Assistant at School of Mathematical Sciences, Peking University.

- *Calculus*, Spring, 2015.
- *Linear algebra*, Fall, 2015.

- *Linear algebra*, Spring, 2016.
- *Linear algebra*, Fall, 2016.

## 7 Publications and Preprints

- Y.A. Rubinstein, G. Tian, K. Zhang, Basis divisors and balanced metrics, 2020, [arXiv:2008.08829](#).
- Y.A. Rubinstein, K. Zhang, Angle deformation of Kähler–Einstein edge metrics on Hirzebruch surfaces, 2020, submitted, [available here](#).
- K. Zhang, Continuity of delta invariants and twisted Kähler–Einstein metrics, [arXiv:2003.11858](#).
- K. Zhang, C. Zhou, Delta invariants of projective bundles and projective cones of Fano type, [arXiv:2003.06839](#).
- K. Zhang, On the optimal volume upper bound for Kähler manifolds with positive Ricci curvature, [arXiv:2001.04169](#).
- K. Zhang, Some refinements of the partial  $C^0$  estimate, [arXiv:1911.11328](#), 2019, to appear in Anal. PDE.
- K. Fujita, Y. Liu, H. Süß, K. Zhang and Z. Zhuang, *On the Cheltsov–Rubinstein conjecture*, [arXiv:1907.02727](#), 2019.
- Y.A. Rubinstein, K. Zhang, *Small angle limits of Hamilton’s footballs*, Bull. London Math. Soc. 52 (2020) 189-199.
- I. Cheltsov, K. Zhang, *Delta invariants of smooth cubic surfaces*, Eur. J. Math. 5 (2019), 729-762.
- I. Cheltsov, Y. Rubinstein, K. Zhang, *Basis log canonical thresholds, local intersection estimates, and asymptotically log del Pezzo surfaces*, Selecta Math. (N.S.) 25 (2019), Art. 34, 36 pp.
- K. Zhang *Stability thresholds of Fano T-varieties of complexity one*, 2018, preprint, [available here](#).