# Wenbin Luo

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Postdoc

## Research interests

Arakelov geometry, diophantine approximation, dynamical systems and birational geometry

## Working experience

Jul. 2023- Postdoc at Beijing International Center for Mathematical Research under the su-Now pervision of Prof. Xinyi Yuan

### Education

- Apr. 2020 Department of Mathematics, Graduate School of Science, Kyoto University, Japan
- Mar. 2023 PhD under the supervision of Prof. Atsushi Moriwaki
  Research Fellowship for Young Scientists(DC1) of Japan Society for the Promotion of Science
- Apr. 2018 Department of Mathematics, Graduate School of Science, Kyoto University, Japan
- Mar. 2020 Master under the supervision of Prof. Atsushi Moriwaki • Scholarships or Awards: • Asian Future Leadership Scholarship
- Sep. 2013 Department of Mathematics, Fudan University, China
- to Jun. 2017 Bachelor • Member of Talents Project

## **Publications**

W. Luo, Slope boundedness and equidistribution theorem, 2022, to appear on Int. Math. Res. Not. Available: https://arxiv.org/abs/2211.08734

#### Preprints

W. Luo, Arithmetic over trivially valued field and its applications, 2020. [Online]. Available: https://arxiv.org/abs/2009.08663

—, The continuity of  $\chi$ -volume functions over adelic curves, 2020. [Online]. Available: https://arxiv.org/abs/2003.09837

—, A relative bigness inequality and equidistribution theorem over function fields, 2021, submitted to Int. J. Number Theory. Available: https://arxiv.org/abs/2112.13206

—, Continuous extension and birational invariance of  $\chi$ -volume Over an Adelic Curve, 2023, submitted to J. Reine Angew. Math. Available: https://arxiv.org/abs/2303.01604

——, J. Song, Arithmetic degrees over fields of characteristic 0, 2024, submitted to Amer. J. Math. Available: https://arxiv.org/abs/2401.11982

, Y. Fan, B. Qu, Height Filtrations and Base Loci on Flag Bundles over a Curve, 2024, submitted to Comp. Math. Available: https://arxiv.org/abs/2403.06808

## Talks and seminars

- 21/08/2020 2nd Kyoto-Hefei Workshop on Arithmetic Geometry
  - $\circ\,$  Title: The continuity of  $\chi\text{-volume}$  over adelic curves
- 07/03/2022 Seminar New adic and algebraic directions in motivic homotopy theory
  - Title: A relative bigness inequality and equidistribution theorem over function fields
- 15/09/2022 Intercity Seminar on Arakelov Geometry 2022
  - Title: A relative bigness inequality and equidistribution theorem over function fields
- 19/10/2022 Kinosaki Symposium on Algebraic Geometry 2022Title: A relative bigness inequality over function fields
- 09/01/2023 NCTS East Asia Core Doctoral Forum in Mathematics
  - Title: Arithmetic Hilbert-Samuel and equidistribution theorems

### Teaching Experience

Apr. 2020 - Jun. 2020	Teaching assistant in Basics of Modern Mathematics A
Oct. 2020 - Jan. 2021	Teaching assistant in Algebra II
Apr. 2021 - Jun. 2021	Teaching assistant in Basics of Modern Mathematics A
Oct. 2021 - Jan. 2022	Teaching assistant in Algebra II
Oct. 2022 - Jan. 2023	Teaching assistant in Algebra II