

# XILUN LI

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## Research Interests

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Generalized Ricci Flow, Ricci Limit Space, Parabolic Bundle

## Education

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### Peking University

*Ph.D. in Mathematics, School of Mathematical Sciences*

**Sep. 2021 – Present**

*Beijing, China*

### University of Science and Technology of China

*B.S. in Mathematics, School of the Gifted Young*

**Sep. 2017 – July 2021**

*Hefei, China*

## Publications and Preprints

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- Xilun Li, Shengxuan Zhou, **New exotic examples of Ricci limit spaces**, *Adv. Math.* 462 (2025), Paper No. 110098, 19 pp.
- Xilun Li, **Entropy and heat kernel on generalized Ricci flow**, *J Geom Anal* 34 (2024), no. 2, Paper No. 42, 23 pp.
- Xilun Li, Yanan Ye, **On the shrinking solitons of generalized Ricci flow**, arXiv:2404.06141, accepted by *Math. Annalen*.
- Xilun Li, Gang Tian, **Hermitian-Einstein metrics on parabolic bundles over compact complex surfaces**, arXiv:2506.15458.
- Xilun Li, Yanan Ye, **Non-negativity of curvature along generalized Ricci flow**.

## Talks

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### Ph.D. Students Conference

*Entropy and heat kernel on generalized Ricci flow*

**October 2023**

*Peking University*

### Differential Geometry Seminar

*On the Class VII surfaces*

**March 2024**

*Westlake University*

### Differential Geometry Forum

*Examples of Ricci limit spaces with special tangent cones*

**June 2024**

*NUDT*

### Workshop on Geometric Analysis

*Parabolic Hermitian-Einstein metrics over nonKähler manifolds*

**July 2025**

*Tsingdao*

## Teaching Assistant

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*Mathematical Analysis III*

**Fall 2022 & Fall 2024**

*Mathematical Analysis II*

**Spring 2022 & Spring 2023**

*Calculus*

**Fall 2021 & Fall 2023**

## Seminar

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*Perelman's proof on Poincaré conjecture*

**Fall 2024 & Spring 2025**

*Several topics on complex geometry*

**Fall 2024**

*Compact complex surfaces*

**Spring 2023**

*Kähler Ricci flow*

**Fall 2022**

*Bamler's theory on Ricci flow*

**Fall 2022**

*Cheeger-Colding theory on Ricci limit spaces*

**Spring 2022**