

## Kai Xiao

Chinese

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## Education

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| 2023 - now  | <b>PhD in mathematics</b> , <i>Université Claude Bernard Lyon 1 – Institut Camille Jordan</i><br><br>Thesis : <i>Sobolev spaces to manifolds: traces, singularities, weak density</i><br>Thesis advisor : Professor Petru Mironescu                                  |
| 2020 - 2023 | <b>Master in mathematics</b> , <i>Beijing Normal University, School of Mathematical Sciences</i><br><br>Thesis : <i>Regularity of the Solution and Free Boundary of Porous Medium Equations on Riemannian Manifolds</i><br>Thesis advisors : Professor Jingang Xiong |
| 2016 - 2020 | <b>Bachelor in mathematics</b> , <i>Beijing Normal University, School of Mathematical Sciences</i>   |

## Publications

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- [1] Antoine Dettaille, Petru Mironescu, and Kai Xiao, *Pullback of closed forms by low regularity maps to manifolds, and applications*, preprint, available at <https://hal.science/hal-05050996v1>.

## Awards and grants

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| 2022 | <b>First Prize of Academic Scholarship of Beijing Normal University</b> |
| 2022 | <b>Excellent Teaching Assistant of School of Mathematical Sciences</b>  |
| 2021 | <b>First Prize of Academic Scholarship of Beijing Normal University</b> |
| 2020 | <b>First Prize of Freshmen Scholarship of Beijing Normal University</b> |

2019	First Prize of 'Jingshi' Scholarship of Beijing Normal University
2019	First Prize (Meritorious Winner) of MCM/ICM
2018	Second Prize of the Contemporary Undergraduate Mathematical Contest in Modeling
2018, 2017	Second Prize of 'Jingshi' Scholarship of Beijing Normal University

## Teaching experience

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2022 - 2023	Teaching assistant of Graduate Course: Real Analysis, <i>Beijing Normal University</i>
2022	Teaching assistant of Graduate Course: Partial Differential Equations, <i>Beijing Normal University</i>

## Languages

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Mandarin	Native speaker
English	Upper intermediate (B2)
French	Utilisateur débutant (A2)

## Leisure

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Sport	Tennis, basketball
Miscellaneous	Video games, animation