Yunlei Wang

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Born: April 23, 1993—Lu'an, Anhui province, China
Nationality: China

Education

2019-	MSc in Mathematics, School of Mathematics and Physics, China University of Geosciences (CUG), expected by July 2022 (advisor: Prof. Ming Wang) GPA: 3.87/4 | Notendurchschnitt: 1.71
2015, fall	Exchange students in Department of Physics, Fudan University
2012-2016	BSc in Applied Physics, School of Science, Harbin Institute of Technology (HIT) Thesis: *Calculations of Two Decay Processes $J/\psi \to \mu^+\mu^-\gamma$ and $J/\psi \to (\mu^+\mu^-)_{BS}\gamma$* (advisor: Prof. Tianpeng Wang) GPA: 3.74/4 | Notendurchschnitt: 1.83 (Rank 1/30)

Research interests & experiences

My primary interests lie in harmonic analysis, especially the uncertainty principle and its applications in quantitative unique continuation.

Now I have transformed interests into algebraic geometry. Due to the blank of courses relevant to algebra and geometry in school, I learned some basic algebraic geometry and its prerequisities through books and video lectures online, most of them were taken notes and some were in latex form. For instance, I learned basic knowledge of riemannian geometry from Prof. Minicozzi's online course videos and Do Carmo's *Riemannian Geometry*, some elementary algebraic geometry from Lothar Göttsche's online course in ICTP. When confronting more commutative algebra conclusions, I could not help learning this, and then found Prof. Andreas Gathmann's online notes. For more details, if anyone is interested in my learning road, may see https://rieunity.github.io/about/.

Activities & competitions

2015.7	Summer Camp of Theoretical Physics, Peking University
2014.3	The Chinese Mathematics Competitions, the third prize in the final
2012.7	Physics Enlightment Summer School of National Top Students, Nanjing University

Teaching assistance

2019 Fall, Real Analysis, China University of Geosciences.
2020 Spring, Functional Analysis, China University of Geosciences.

Publications

[1] Yunlei Wang, Ming Wang, Observability inequality at two time points for the KdV equation from measurable sets, *J. Math. Anal.Appl.* 505(2) (2022).