

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 Wuhan, 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 $J/\psi \rightarrow \mu^+\mu^-\gamma$ and $J/\psi \rightarrow (\mu^+\mu^-)_{BS}\gamma$*
(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 prerequisites 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, Peiking University
- 2014.3 The Chinese Mathematics Competitions, the third prize in the final
- 2012.7 Physics Enlightenment 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).