Hu Yang

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Education

Sun Yat-Sen university 2020.9 – 2024.6
bachelor in mathematics *Guang Zhou, China*

University of California, Berkeley 2023.8 – 2023.12
visiting student in UC Berkeley (BGA) *Berkeley, California, USA*

Research Experience

Hodge number of complete intersections in $P^n \times P^m$ 2022.9-ongoing
Sun Yat-Sen university *Tutor: professor Ke Huazhong*

- deducing the way of calculating hodge numbers of complete intersections in $P^n \times P^m$ through Hirzeburch-Riemann-Roch theorem.
- By the calculation of hodge number, I try to find a way to classify the complete intersections in product projective spaces. At least for the simple case when m=1, i.e, $P^n \times P^1$.

Research Interest

I am interested in many branches of mathematics, including algebra, geometry and topology. During my undergraduate study, I took many graduate courses including riemannian geometry, harmonic analysis, functional analysis, topology and commutative algebra. In the last year, I attended a seminar about Lie algebra and its represenatation serving as a lecturer. I also hold a seminar about riemann surface and algebraic curves for one semester.
Since last year, I have been very interested in algebraic geometry and self-studied Harthsone's 'algebraic geometry' (including chapter 1-3) . And I find the language of algebraic geometry is tremendously powerful and amazing. And I believe the future of the mathematics lies under the context of it.
Besides, during my study in various branches of mathematics, I find the ideal of 'representation' is important, whether it is in abstract harmonic analysis, Gelfand representation or Lie theory. So I am also very interested in the representation theory in algebraic geometry.

Awards & Honors & Academic Achievements

Top Students in Basic Subjects Plan – Mathematics
conducted by the ministry of education of China

GPA: 4.15/5.00 – Ranking 2/85
by the end of this semester

Workshops and Conferences

short cources on 'Mordell-Weil Theorem'; instructor: Liu Qing, University of Bordeaux
funded by the university of Xia Men *2023.6*

Worshops on Complex Geometry and Algebraic Geometry;
funded by Tianyuan Mathematics Center in Central China *2023.8*

Specialized Skills

Languages: English(IELTS 7.0)
Programming: MATLAB, Python, C++

Other Interests

philosophy and psychoanalysis:
I am an amateur in Jacques Lacan's psychoanalysis. And in the daily life, I am a Platonist, persuing the 'Form of the Good'.