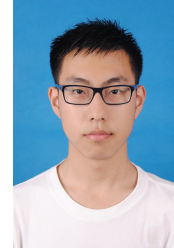


# Curriculum Vitae

**Name:** Erzhuo Wang(王尔卓)  
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## 1 Education

**Xi'an Jiaotong University**, Shaanxi, China    2021-2025  
bachelor student in School of Mathematics and Statistic

## 2 Personal Information

**Major:** Mathematics

**Grade:** 87.5/100 (91.2 if only Mathematics courses are considered)

**Rank:** 8/60

**Research Interests:** Algebraic Number Theory

**Core Module:** Analysis-1(99), Analysis-2(99), Analysis-3(85), Linear Algebra-1(72), Linear Algebra-2(93), Abstract Algebra(94), ODE(89), Commutative Algebra(90), Real Analysis(97), Complex Analysis(99), Probability Theory(98), Numerical Analysis(82), Discrete Math(91).

## 3 Academic Experience

- Algebra and Number Theory Summer School, 2023.7.31-2023.8.20, sponsored by Chinese Academy of Sciences, Academy of Mathematics and Systems Science

## 4 Publication

- 王尔卓, 模论观点下讨论矩阵可交换问题, to appear in 《高等数学研究》 (in Chinese)

**Abstract:** Given a fixed matrix  $A$  over an arbitrary field  $F$ , the matrixs in  $M_n(F)$  which commute with  $A$  form a vector space  $V$  over  $F$ . Our paper gives an explicit formula to calculate the dimension of  $V$ . This problem has been solved by Frobenius, but we use a new construction to solve this problem inspired by Christopher J Hillar and Darren L Rhea. Automorphisms of finite abelian groups.

## 5 Award

- Third-class Scholarship of Xi'an Jiaotong University in 2021-2022
- Third-class Scholarship of Xi'an Jiaotong University in 2022-2023