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English  
Mandarin  
French

Research Interests: Geome-  
try and Topology

# Yanzhihong Hu

*Undergraduate, Mathematics*

## Education

### BS. in Mathematics

Jan 2023 - present

*University of Illinois Urbana-Champaign*

GPA 3.86

### BS. in Mathematics

Feb 2021 - Dec 2022

*Zhejiang Gongshang University*

GPA 3.65, Rank 3

### BA. in Chinese language and literature

July 2020 - Jan 2021

*Zhejiang Gongshang University*

## Research experience

### Research about Linear Poisson cohomology in dimension 4 mentored by Florian Zeiser

Aug 2023 - Dec 2023

*Illinois Mathematics Lab*

### Reading Course about Akio Kawauchi's articles solving open problems in topology/geometric group theory, mentored by Igor Mineyev.

Jan 2024 - present

*IG<sup>3</sup>OR'S*

### Research about Poisson cohomology in dimension 4 mentored by Florian Zeiser

Jan 2024 - present

*Illinois Mathematics Lab*

## Courses

Mathematical Analysis/Calculus 1-3, Advanced Algebra, Real Variables, Complex Variables, Modern Algebra/Intro to Abstract Algebra I, Intro to Abstract Algebra II, Probability, Mathematical Statistics, Set Theory and Topology, Abstract Algebra (Graduate), General Topology (Graduate).

## Ongoing Courses

Intro to Algebraic Geometry (Graduate), Algebraic Topology I (Graduate), Intro to Geometric Group Theory (Graduate), Abstract Linear Algebra.

## Skills

Presentation, Teaching, Python,  $\LaTeX$