

# Curriculum Vitae

Kaiqi Yang

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## Education

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<b>New York University</b>	2018.9-2023.5
<i>Doctor of Philosophy in Mathematics</i>	<i>New York City, New York, United States</i>
<b>New York University</b>	2016.9-2018.5
<i>Master of Science in Mathematics</i>	<i>New York City, New York, United States</i>
<b>Hong Kong University of Science and Technology</b>	2012.9-2016.5
<i>Bachelor of Science in Mathematics</i>	<i>Clear Water Bay, Kowloon, Hong Kong, China</i>

## Employment

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<b>Institute of the Mathematical Sciences of the Americas(IMSA)</b>	2023.8-Now
<i>Research Assistant Professor</i>	<i>Miami, Florida, United States</i>

## Awards & Honors

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<b>First Class Honors</b>	
<i>Hong Kong University of Science and Technology</i>	2016
<b>Math Master's Thesis Prize</b>	
<i>New York University</i>	2017

## Languages

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**Languages:** Chinese (Native), English (Fluent)  
**Computer languages:** Magma, Matlab, Python

## Publications

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1. Potentially stably rational del Pezzo surfaces over nonclosed fields, (with Yuri Tschinkel),  
Combinatorial and Additive Number Theory III, ed. M. Nathanson, Springer, 227-233, (2020).
  2. Combinatorial Burnside groups, (with Yuri Tschinkel and Zhijia Zhang),  
Research in Number Theory volume 8, Article number: 33 (2022).
  3. Equivariant birational geometry of linear actions, (with Yuri Tschinkel and Zhijia Zhang),  
<https://arxiv.org/abs/2302.02296>, to appear on EMS surveys in Mathematical Sciences.
  4. Potentially stably rational conic bundles, in preparation
  5. Computation of Burnside symbols of toric variety, in preparation

### *Conferences and Talks*

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1. MPS Conference on Number Theory, Geometry, Moonshine and Strings III,  
Simons Foundation, February 27-March 1, 2019.
2. Simons Collaboration on Arithmetic Geometry, Number Theory and Computation Annual Meeting,  
Simons Foundation, January 9-10, 2020.
3. Simons Collaboration on Arithmetic Geometry, Number Theory, and Computation Annual Meeting,  
Zoom online, January 13 - 14, 2022.
4. MPS Conference on Higher Dimensional Geometry,  
Simons Foundation, October 24 - 28, 2022.
5. Simons Collaboration on Arithmetic Geometry, Number Theory and Computation Annual Meeting,  
Simons Foundation, January 11-12, 2023.
6. Higher Invariants in Equivariant and Geometric Topology,  
University of Miami, May 24-27, 2023.
7. Birational Invariants for singular Fano variety over algebraically non-closed field, IMSA,  
September 26, 2023
8. MPS Conference on Arithmetic Geometry, Group Actions and Rationality Problems,  
Simons Foundation, May 29-31, 2024

### *Teaching*

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|------|---|
| 2016 | Fall:<br>MATH-UA.0211-014 Math For Economics (Teaching assistant)   |
| 2017 | Spring:<br>MATH-UA.0349-002 Honors Algebra II (Teaching assistant and Grader)                                       |
| 2018 | Spring:<br>MATH-UA.0240-001 Combinatorics (Grader)  |
| 2020 | Spring:<br>MATH-GA 2210.001 Introduction to Number Theory I (Grader)<br>Fall:<br>MATH-GA 2310.001 Topology (Grader) |

2021      Spring:  
            MATH-GA.2110-001 Linear Algebra I (Grader),  
            MATH-GA.2210-001 Introduction To Number Theory I (Grader)  
            Fall:  
            MATH-GA 2130.001 Algebra I (Grader),  
            MATH-GA 2310.001 Topology (Grader)

2022      Spring:  
            MATH-GA 2140.001 Algebra II (Grader),  
            MATH-GA 2210.001 Introduction to Number Theory I (Grader)  
            Fall:  
            MATH-GA 2111.001 Linear Algebra (Grader),  
            MATH-GA 2350.001 Differential Geometry I (Grader)

2023      Fall  
            MTH 161 Calculus I