

# Yilin Yan | Curriculum Vitae

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*"A mathematician is a machine for turning coffee into theorems."  
– Alfréd Rényi*

## Education

**Honors Program in Science (Tang Class)\***

*B.S. in Computer Science*

GPA: 3.51 / 4.0, Rank: 25 / 27

**Jilin University**

*2018–present*

## Research Interests

### In General

Theoretical computer science and machine learning theory, with a focus on their intersections and designing efficient algorithms with theoretical guarantees.

### In Particular

- Sublinear algorithms and communication complexity-derived lower bounds
- Online learning and online optimization
- Beyond worst-case analysis and learning-augmented algorithms
- Algorithms design using tools from modern mathematics

## Research Experience

**Smoothed Online Convex Optimization in Cloud Computing**

*Advisor: Shang Gao*

**Jilin University**

*2021.2–present*

**Adversarially Robust Sampling and Streaming Algorithm**

*Advisor: Still looking for*

**Jilin University**

*2021.5–present*

## Publications

I believe it will come in the near future.

## Languages

**English:** Fluent, with CET-4 (607) and CET-6 (509)

**Chinese:** Native

## More Info

**Homepage:** yilin-yan.github.io

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\*Honors Program in Science of Jilin University is supported by Chinese Ministry of Education. No more than 100 students are selected from 10,000+ undergraduate students in Jilin University every year through strict assessment and ranking, and every selected student majors in one from five basic sciences, including mathematics, physics, chemistry, biology and computer science.