# Li, Jiaqian Charlie

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## Summary

- A junior student at Columbia University;
- Research interests lie in theoretical computer science, specifically computational complexity and algorithmic game theory;
- Acquainted with data structures and algorithms, participated in programming contests.

## Education

**Columbia University** — New York, U.S.A.
*B.A in Computer Science* — *Sept. 2023 - Present*
*CGPA: 4.27 out of 4.33*

**City University of Hong Kong** — Hong Kong SAR, China
*B.Sc in Computer Science (Minor in Mathematics)* — *Sept. 2020 - Present*
*CGPA: 4.15 out of 4.30*

**Tsinghua University** — Beijing, China
*Exchange student in Computer Science and Technology* — *Sept. 2022 - Jan. 2023*
*CGPA: 3.91 out of 4.00*

## Projects

**Obnoxious Facility Location Problems with Group-Fairness** — *Feb. 2023 - Aug. 2023*
Supervisor: Prof. Minming Li and Prof. Hau Chan
- Accepted to AAAI 2024.
- Introduce the group fairness notion to the obnoxious facility location game;
- Design strategyproof mechanisms to elicit the information truthfully and ensure group fairness.

## Work Experience

**Campus Internship** — *Jul. 2021 - Aug. 2021*
*Department of Computer Science, City University of Hong Kong*
Supervisor: Prof. Minming Li
- Study the facility location game, a well established problem in algorithmic game theory.

**Teaching Assistant** — *Feb. 2021 - Apr. 2022*
*Department of Computer Science, City University of Hong Kong*
Supervisor: Prof. Minming Li
- Help with CS3391 Advanced Programming, setting quiz and exam problems and holding consultation sessions;
- Help with CS3334 Data Structures, setting homework questions and checking statistics.

## Skills and Other Information

**Advanced:** C++, Python;
**Intermediate:** LaTeX, Matlab, Java, Vue3;
**Basic:** Sql, Bash.

**Relevant Course Works:**

- **At Columbia University:** Intro to Computational Complexity (A+), Intro to Cryptography (A+), Intro to Computational Learning Theory (A+), Intro to Quantum Computation (A+), Analysis of Algorithms (A+);
- **At CityU:** Data Structures (A+), Operating Systems (A+), Computer Network (A+), (Mathematical) Analysis (A+), Linear Algebra (A+), Introduction to Optimization (A+);
- **At Tsinghua University:** Software Engineering (A), Formal Languages and Automata (A-), Principles and Practice of Compiler Construction (A-), Introduction to Complex Analysis (A).

**Languages:** English (Fluent, IELTS 7.0), Mandarin (Mother-tongue).

## Honors and Awards

1. **Dean's List**, City University of Hong Kong, All Semesters;
2. **Hong Kong SAR Government Scholarship**, 2022 - 23, 2023 - 24;
3. **Silver Medal**, Asia-Pacific Informatics Olympiad (China Region), 2018;
4. **Silver Medal**, 45th ICPC Asia Regional Contest (Jinan Site), 2020;
5. **Silver Medal**, 6th China Collegiate Programming Contest (Changchun Site), 2020;
6. **Silver Medal**, 46th ICPC Asia Regional Contest (Kunming Site), 2022.