## Yuchong Pan


**Contact Information**

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http://ypan.me


**Research Interests**

Programming languages and theoretical computer science – especially gradual typing, type systems, algorithms, theory of computation, theory of complexity, graph theory and combinatorial optimization.

**Education**

**University of British Columbia**

B.S., Computer Science and Mathematics, Combined Honours, expected 2021

**Employment**

**Microsoft Corporation**

Software Engineer Intern, 2020
Software Engineer Intern, 2019
Software Engineer Intern, 2018

**Jisuanke**

Teaching Researcher, 2018–2019
Lecturer, 2018–2019

**Sogou, Inc.**

Software Engineer Intern, 2017

**InitialView**

Software Engineer Intern, 2016–2017

**Research Experience**

**University of British Columbia**

Gradual typing of recursive types, 2018–present
- Advisor: Ronald Garcia

**Teaching Experience**

**University of British Columbia**

*Teaching Assistant*

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|---|---|
| CPSC 421/501 | Introduction to Theory of Computing (graduate), Fall 2019 |
| CPSC 121 | Models of Computation, Fall 2018 |

*Academic Assistant*

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| CPSC 411 | Introduction to Compiler Construction, Fall 2019 |

**Jisuanke**

*Lecturer*

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|---|---|
| Competitive Programming, Level 6 | Spring 2019 |
| Competitive Programming, Level 5 | Fall 2018 |
| Competitive Programming, Level 3 | Summer 2018 |

*Teaching Researcher*

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| Competitive Programming, Level 6 | Spring 2019 |

## Volunteer Experience

**Shaoxing No.1 High School**

Summer Coach (Competitive Programming), 2016
Student Lecturer (Competitive Programming), 2013–2015

## Talks and Presentations

- Unsplittable Flow Problem on Paths and Trees: Closing the LP Relaxation Integrality Gap (with Adam Jozefiak). UBC CPSC 531F survey. University of British Columbia. Vancouver, BC. 2019. [Slides]
- Introduction to Communication Complexity. Quantum Club seminar. University of California, Santa Barbara. Santa Barbara, CA. 2019.

## Honors and Awards

- Faculty of Science International Student Scholarship (CAD $5,000), University of British Columbia, 2019.
- Dean of Science Scholarship (CAD $350), University of British Columbia, 2019.
- Trek Excellence Scholarship (CAD $4,000), University of British Columbia, 2019.
- Stanley M Grant Scholarship in Mathematics (CAD $1,500), University of British Columbia, 2019.
- Programming Language Implementation Summer School Fellowship (€400), 2019.
- Science Scholar / Dean's Honour List, University of British Columbia, 2019.
- Faculty of Science International Student Scholarship (CAD $10,000), University of British Columbia, 2018.
- Dean of Science Scholarship (CAD $425), University of British Columbia, 2018.
- Trek Excellence Scholarship (CAD $4,000), University of British Columbia, 2018.
- Marie Kendall Memorial Scholarship in Science (CAD $925), University of British Columbia, 2018.
- Joel Harold Marcoe Memorial Scholarship (CAD $150), University of British Columbia, 2018.
- Science Scholar / Dean's Honour List, University of British Columbia, 2018.
- Outstanding International Student Award (CAD $6,000), University of British Columbia, 2017.
- Silver Medal, China Team Selection Completition for International Olympiad in Informatics, China Computer Federation, 2015.
- Bronze Medal, Asia Pacific Informatics Olympiad, China Computer Federation, 2015.
- First Prize, National Olympiad in Informatics in Provinces (Advanced Division), China Computer Federation, 2014.
- First Prize, National Olympiad in Informatics in Provinces (Advanced Division), China Computer Federation, 2013.

## Selected Coursework

- Probability (graduate)
- Combinatorial Optimization (graduate)
- Tools for Modern Algorithm Analysis (graduate)
- Introduction to Theory of Computing (graduate)
- Real Variables
- Definition of Programming Languages
- Introduction to Compiler Construction
- Intermediate Algorithm Design and Analysis

## Academic Training

- Second Programming Language Implementation Summer School. Bertinoro, Italy. 2019.

## Relevant Skills

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| Languages: | English, Mandarin |
| Programming: | LaTeX, Racket, Standard ML, JavaScript, C/C++, Java, C#, Python, Ruby, MATLAB, Go, MySQL |

Last Updated November 28, 2019