

Yuchong Pan

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http://ypan.me

RESEARCH INTERESTS Programming languages and theoretical computer science – especially gradual typing, type systems, compilers, 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

University of British Columbia
Undergraduate Academic Assistant, 2019–2020
Undergraduate Teaching Assistant, 2019
Student Assistant, 2019
Undergraduate Teaching Assistant, 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
CPSC 421/501 Introduction to Theory of Computing (graduate), Fall 2019
CPSC 121 Models of Computation, Fall 2018

Academic Assistant
CPSC 411 Introduction to Compiler Construction, Fall 2019–Spring 2020

Jisuanke
Lecturer

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

Teaching Researcher

Competitive Programming, Level 6	Spring 2019
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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] [Report]
- Introduction to Communication Complexity. Quantum Club seminar. University of California, Santa Barbara. Santa Barbara, CA. 2019.
- Gradual Typing for Octave Language (with Ada Li, Kathy Wang, and Paul Wang). UBC CPSC 311 project. University of British Columbia. Vancouver, BC. 2018. [Report]

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 Completion 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)
- Stochastic Processes (graduate)
- Submodular Optimization (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
- Computer Hardware and Operating Systems

ACADEMIC TRAINING	◦ Second Programming Language Implementation Summer School. Bertinoro, Italy. 2019.
RELEVANT SKILLS	Languages: English, Mandarin Programming: \LaTeX , Racket, Standard ML, JavaScript, C/C++, Java, C#, Python, Ruby, MATLAB, Go, MySQL
LAST UPDATED	December 31, 2019