

# CONSTANCE WANG

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## PROJECTS

- Penn Course Alert Plus - Penn Apps project that uses the Penn open data API to send students email and text notifications for available spots in their desired courses
- Pattern Sketch - an application coded in Java for creating digital collages
- Extended essay in mathematics - an analysis of Fourier transforms in audio signal processing, using MATLAB for a demo

## ACHIEVEMENTS

- Euclid mathematics contest - honour roll (2019)
- Canadian Chemistry Contest - first place in Ontario (2019)
- Canadian Computing Contest - junior honour roll (2017)
- Scholastic Arts and Writing Competition - National Silver Medal in Drawing and Illustration (2019)
- Chess - Pan-American Youth U18 Girls co-champion (2017) and two-time Canadian champion (2015 and 2011)

## TECHNICAL SKILLS

- Java ★★★★★
- HTML & CSS ★★★★★
- C++ ★★★★★
- Git ★★★★★
- OCaml ★★★★★
- Javascript ★★★★★
- MATLAB ★★★★★

## WORK EXPERIENCE

### Teaching Assistant

Mathematical Foundations of Computer Science | Incoming Spring 2020

- Will teach weekly recitations and hold office hours for CIT 592, University of Pennsylvania's online discrete math course

### Innovation Developer

RBC Royal Bank: Tech & Ops | July 2019 - August 2019

- Worked in one-week sprints with a team to update an internal web application
- Applied modern software development practices, including Agile, unit testing, error logging, and version control with Git
- Wrote a scheduled task and implemented data caching on the back-end with Java Spring Boot
- Completed front end fixes using Javascript
- Presented the code our team wrote in weekly demo days
- Pitched, designed a wireframe, and coded a minimum viable product for a new feature

### Chess Instructor

Philip Math Chess Academy | August 2017 - May 2019

- Taught groups of children aged five to ten using my own lessons and homework assignments

## EDUCATION

**Bachelor of Science in Engineering, University of Pennsylvania**

Major in Computer Science - Digital Media Design, Class of 2019 - 2023

- Extracurriculars - UPGRADE, chess club and pan-American collegiate team, Modern Languages program community

### Victoria Park Collegiate Institute

International Baccalaureate diploma, Class of 2015 - 2019

## OTHER SKILLS

- Creative - traditional drawing, Adobe Photoshop and Illustrator, Paint Tool SAI
- Languages - Chinese and French
- Microsoft Office
- Video conferencing
- Leadership (of math, chess, and programming clubs)