BENJAMIN CHEN

Candidate for Pure Mathematics Honours Co-op
Computing Minor / East Asian Studies Minor

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EXPERIENCE

CS137 Instructional Support Assistant
University of Waterloo

📅 Sept. 2021 - Dec. 2021   📍 Waterloo, ON

CS246 Instructional Support Assistant
University of Waterloo

📅 May 2020 - Aug. 2020   📍 Waterloo, ON

CS137 Instructional Support Assistant
University of Waterloo

📅 Sept. 2019 - Dec. 2019   📍 Waterloo, ON

- Maintaining course web page and newsgroup/Piazza
- Giving tutorials to students on a weekly basis
- Writing auto testing scripts to evaluate students' submission (Marmoset)
- Attending and participating in weekly feedback and planning meetings which normally include the instructors

Information Assistant
Fuqing Yongbin Adhesive Products Co.,Ltd.

📅 Sept. 2018 - Dec. 2018   📍 Fujian, China

- Monitoring and updating company's website contents
- Use Excel, Word and email to capture project measurements and documentation
- Conduct analysis to help identify trends, issues and/or opportunities

Youth Steering Committee – eLearning Critic
SAVIS of Halton

📅 Mar. 2016 - Jun. 2016   📍 Oakville, ON

- Reviewed and provide constructive feedback on SAVIS program eLearning presentations composed for youth programs to improve critical thinking skills
- Developed cooperation skills by working with SAVIS staff to compile research for presentations
- Applied communication skills and organization skills to schedule shifts for over 10 volunteer coordinator using Google Calendar

SKILLS

LaTeX, C, Python   ● ● ● ● ●

C++, Microsoft Office, PowerShell, Bash   ● ● ● ● ○

Mathematica, MATLAB, Linux   ● ● ● ○ ○

RELEVANT COURSES

Pure Mathematics

- PMATH 347: Groups and Rings
- PMATH 348: Fields and Galois Theory
- PMATH 351 / 352: Real / Complex Analysis
- PMATH 365: Differential Geometry
- PMATH 450: Lebesgue Integration and Fourier Analysis
- PMATH 464: Intro to Algebraic Geometry
- PMATH 440: Analytic Number Theory
- PMATH 446: Intro to Commutative Algebra (In progress)

Computing Option

- CS 234: Data Types & Structures
- CS 245: Logic and Computation
- CS 246: Object-Oriented Software Development
- CS 370: Numerical Computation
- CS 475: Computational Linear Algebra
- CS 487: Intro to Symbolic Computation (In progress)

A more detailed chart illustrating the courses I have taken so far can be accessed here: Course Dependency Chart

QUALIFICATIONS

Programming Experience

- Developed C/C++/Python skills in various CS courses
- Participated in a C++ group project for CS 246 (Chess)
- Developed various scripts for either work (auto testing scripts) or personal use Sample Script: Renaming Minecraft Map File
- Developed a Static Website using HTML and CSS

Proficient LaTeX User

- Using LaTeX in various settings: Notes, Assignment, CV, Charts, etc
  Sample document:
  - Notes: PMATH 450 Notes