

Nick Wang

117 Strathearn Avenue
Richmond Hill L4B2L2, Ontario
Canada
nick.wang@mail.mcgill.ca

Education

Honours B. Eng., Mechanical Engineering – McGill University **2013 - 2017**
CGPA 3.93/4.00

Thesis Title: Biomechanics of Diseased Aorta Tissue—Nanoindentation

- **Brodeur-Drummond Scholarship** – high academic standing in the Faculty of Engineering (Fall 2017-Winter 2018 and Fall 2015-Winter 2016)
- **Faculty of Engineering Scholarship** – top 5% of the Faculty of Engineering (Fall 2017)
- **Derek Amy Memorial Scholarship** -- outstanding academic standing and significant contributions to the educational process beyond the classroom (Winter 2017)
- **Dean's Honour List** -- top 10% of the Faculty of Engineering (2013-Current)

Non-Graduating Exchange Student – National University of Singapore **Fall 2016**

Work Experience

Teaching Assistant – McGill's Department of Mathematics **Sep 2015 - Present**

- Instructed classes of 80 McGill students in intermediate calculus and ordinary differential equations
- Independently prepared tutorial material and full solutions to problem sets

Researcher – Pomès Lab at SickKids Centre for Research and Learning **2015-2016**

- Conducted molecular dynamics simulations of elastin proteins in a Unix environment
- Used Python packages like NumPy, SciPy and matplotlib to analyze the structural and functional consequences of point mutations in elastin

Researcher – McGill's Micro and Nanobioengineering Lab **2014-2015**

- Developed a proof of concept for an integrated washing step in a lab-on-chip device for isolating tumour cells from whole blood

Service Desk Analyst – SNC-Lavalin Operations & Management **2013-2014**

- Provided first line IT technical support to internal staff nation-wide, analyzing and resolving problems with applications, systems, and hardware

Extracurricular Experience

Tutor – McGill's Engineering Peer Tutor Service **Jan 2016 - Present**

- Independently prepared and taught exam review sessions for physics courses
- Tutored students in physics courses

Tutor – Mango Tutors Canada **Jan 2017 - Present**

- Mentored international students on Canadian society and culture, and prepared them for the IELTS

Webmaster – McGill Chinese Students' Society **2015-2017**

- Used Django to design a responsive website for voting contestants onto a dating show
- Maintained main website's functionality

Skills

- **Engineering** – SolidWorks, ANSYS Mechanical, ANSYS Fluent
- **Scientific Programming** – Mathematica, MATLAB, NumPy, SciPy, matplotlib, GROMACS
- **Web Development** – Django, SQL, AWS deploy, HTML, CSS, Javascript
- **Programming** – Python, C, Javascript, MATLAB, Unix, Bash