Nick Wang

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http://nickwang.net

Education

Honours Bachelor of Mechanical Engineering || McGill University　　　**Sep 2013 – Dec 2017**
CGPA 3.93/4.00
- Thesis Title: Biomechanics of Diseased Aorta Tissue—Nanoindentation
- Brodeur-Drummond Scholarship 2x, Faculty of Engineering Scholarship, Derek Amy Memorial Scholarship
- Dean's Honour List

Non-Graduating Exchange Student || National University of Singapore　　　**Aug – Dec 2016**

Programming Experience

Researcher || Pomès Lab, SickKids Centre for Research and Learning　　**May 2015 – Apr 2016**
- Conducted molecular dynamics simulations of elastin proteins in a Unix environment
- Analyzed large simulation data sets using Python packages like NumPy, SciPy, and matplotlib to elucidate the structural and functional consequences of point mutations in elastin
- Worked under agile project management tool Pivotal Tracker

Webmaster || McGill Chinese Students' Society　　　**Sep 2015 – Apr 2017**
- Used Django to design and develop an online voting website for a dating show
- Deployed the website on Amazon Web Services and stored voting information in an SQLite database
- Managed and updated main website using GitHub and MongoDB

Work Experience

Teaching Assistant || McGill's Dept. of Mathematics & Statistics　　　**Sep 2015 – Dec 2017**
- Taught classes of 80 students in intermediate calculus and ordinary differential equations
- Independently prepared tutorial material and full solutions to problem sets
- Contributed to the development of teaching methodologies and materials

Tutor || McGill's Engineering Peer Tutor Service　　　**Jan 2016 – Dec 2017**
- Tutored students (one-on-one and groups) in physics courses

Tutor || MangoTutors　　　**Jan – Dec 2017**
- Mentored international students over videocall for the International English Language Testing System

Researcher || McGill's Micro and Nanobioengineering Lab　　　**Sep 2014 – Apr 2015**
- Developed a proof of concept for an integrated washing step in a filter-based lab-on-chip device for isolating circulating tumour cells from whole blood

Service Desk Analyst || SNC-Lavalin　　　**Summer 2013 & 2014**
- Provided first line IT technical support to internal staff nation-wide, analyzing and resolving problems with applications, systems, and hardware

Skills & Achievements

Languages	Native English/Chinese, **I**ntermediate French, **B**asic Korean
Programming	Unix/Bash, C, Python, Java, SQL, HTML, CSS, Javascript, Django
Engineering	MATLAB, Mathematica, SolidWorks, Ansys Mechanical & Fluent
Tests	MCAT 518/528 (97th percentile)