

MEGAN CHANG

Toronto, ON, Canada

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SKILLS

- **Languages:** Java, Python, C, Shell Scripting, XML, SQL, HTML, CSS, JavaScript
- **Programs:** MATLAB, Matplotlib, PyMol, VMD, LaTeX, Affinity Designer, NMRViewJ

EDUCATION

Western University, London, ON

9/2019 – 12/2021

Thesis-based Master of Science, Biochemistry (MSc)

- Dean's Honors List
- Published Work:
 - **Chang, M.** Elucidating the Structural and Dynamical Properties of the Intrinsically Disordered Protein Nrf2 Using Molecular Dynamics Simulations. *Electronic Thesis and Dissertation Repository* 2021. <https://ir.lib.uwo.ca/etd/8293>.
 - **Chang, M.**; Wilson, C. J.; Karunatileke, N. C.; Moselhy, M. H.; Karttunen, M.; Choy, W.-Y. Exploring the Conformational Landscape of the Neh4 and Neh5 Domains of Nrf2 Using Two Different Force Fields and Circular Dichroism. *J. Chem. Theory Comput.* 2021, 17 (5), 3145–3156. <https://doi.org/10.1021/acs.jctc.0c01243>.
 - Wilson, C. J.; **Chang, M.**; Karttunen, M.; Choy, W.-Y. KEAP1 Cancer Mutants: A Large-Scale Molecular Dynamics Study of Protein Stability. *Int. J. Mol. Sci.* 2021, 22 (10), 5408. <https://doi.org/10.3390/ijms22105408>.

Western University, London, ON

9/2015 – 6/2019

Bachelor of Medical Science, Honors Specialization in Computational Biochemistry (BMSc. Honors)

- Dean's Honors List
- Thesis Project (9/2018 – 5/2019)
- Research Project (9/2017 – 5/2018)
 - Acknowledgement in:
 - Li, Y.; Shirley, B. C.; Wilkins, R. C.; Norton, F.; Knoll, J. H. M.; Rogan, P. K. Radiation Dose Estimation by Completely Automated Interpretation of the Dicentric Chromosome Assay. *Radiat. Prot. Dosimetry* 2019, 186 (1), 42–47. <https://doi.org/10.1093/rpd/ncy282>.

EXPERIENCE

Western University, London, ON

9/2019 – 12/2021

Graduate Research Assistant

- Developed hypothesis and conceptualized projects
- Developed and performed methodologies
- Prepared and published manuscripts for peer-reviewed journals
- Trained and mentored prospective students for the lab

Western University, London, ON

9/2019 – 12/2021

Graduate Teaching Assistant

- Marked assignments with clear and constructive feedback to students
- Clarified topics and answered students' questions related to biochemistry and molecular biology
- Prepared and held a final review session

Victoria Hospital & Children's Hospital – LHSC, London, ON

9/2017 – Present

Research Assistant

- Systematic Review: Cardiac Function in Sepsis
- Retrospective Cohort Study: Analysis of the Burden of ICU Survivorship
 - Poster Presentation at London Health Research Day, London, ON
 - More than 700 people in attendance
 - Participants from health science labs from Schulich School of Medicine & Dentistry, Robarts Research Institute, Lawson Health Research Institute, London Health Sciences Centre, and St. Joseph's Health Care London

ACTIVITIES AND INTERESTS

Victoria Hospital & Children's Hospital – LHSC, London, ON

10/2016 – 4/2017

Volunteer Clerical Assistant

- Volunteered at the REI clinic, audiology department and trauma program
- Organized medical records, made copies, mailed medical records, and assembled trauma care kits

Western University, London, ON

9/2015 – 4/2016

Crafting for a Cure – Crafting Committee Member

- Not-for-profit registered charity creating positive experiences for children in hospitals
- Created and taught the crafts to the general members of the club
- Assisted with fundraising for the committee and assembled craft kits for the children

London School of Dance, Scarborough, ON

9/2001 – 6/2015

Dance (classical and competitive training)

- Achieved the highest vocational graded level in ballet - **ARAD (Associate status for the Royal Academy of Dance)**
- Achieved the highest vocational graded level in jazz - **ABATD (Associate member of the British Association of Teachers of Dance in Jazz)**

AWARDS AND ACHIEVEMENTS

- Western University, Western Scholarship of Distinction (2015)