

curriculum vitae of
Dongyan Lin

COMPUTATIONAL NEUROSCIENCE · MACHINE LEARNING · NEURAL NETWORKS

📧 dongyanlin.github.io ✉ dongyan.lin@mail.mcgill.ca

EDUCATION

Sep. 2019 – present	Ph.D. in Computational Neuroscience I am a PhD candidate in computational neuroscience at the Integrated Program of Neuroscience at McGill University and Mila. My research lies at the intersection of neuroscience and artificial intelligence. Specifically, I am interested in designing artificial agents whose behaviours and neural representations resemble those observed in animals, as well as developing novel machine learning tools to analyze neural data. cGPA: 4.00/4.00	MCGILL UNIVERSITY, CANADA
Sep. 2015 – Jun. 2019	Hon. B.Sc. in Physiology (high distinction) Minored in Mathematics and Psychology. cGPA: 3.87/4.00	UNIVERSITY OF TORONTO, CANADA

RESEARCH EXPERIENCE

Sep. 2019 – present	Ph.D. Student Advisor: Dr. Blake Richards Project: An artificial intelligence framework for the neural basis of time-dependent working memory	MILA; MCGILL UNIVERSITY
Sep. 2018 – Apr. 2019	Lab Manager / Research Assistant Advisor: Dr. Katherine Duncan Project: Measurement of familiarity to objects with the naming experiment	DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF TORONTO
Jun. 2018 – Aug. 2018	Bioinformatics Intern Advisor: Dr. Michiel de Hoon Project: Elucidating the functional roles of anti-sense transcripts in human THP-1 leukemia cells with computational methods	RIKEN, JAPAN
May. 2017 – Aug. 2017	Research Student Advisor: Dr. Steven Prescott Project: <i>In vitro</i> chloride regulation of mouse hippocampal gamma oscillations	SICKKIDS HOSPITAL; UNIVERSITY OF TORONTO

PRESENTATIONS

1. **Dongyan Lin**, FANTOM Consortium, Michiel de Hoon. Elucidating the functional roles of anti-sense transcripts in human THP-1 leukemia cells with computational methods. *Summer Undergraduate Research Symposium, Department of Cell & System Biology, University of Toronto. September 2018. Received the Best Poster Award.*
2. **Dongyan Lin**, Stephanie Ratté, Steven Prescott. The chloride regulation of mouse hippocampal gamma oscillation *in vitro*. *University Research Opportunity Program Awardee Seminar, University of Toronto. August 2017.*

HONOURS

2020	IVADO MSc Excellence Scholarship (\$40,000)	IVADO
2019	Recruitment Award (\$5,000)	MCGILL UNIVERSITY
2018	Innis College Exceptional Achievement Award (\$735)	UNIVERSITY OF TORONTO
2019, 2018, 2017, 2016	Dean's List	UNIVERSITY OF TORONTO
2017	University Research Opportunity Program Award (\$2,000)	UNIVERSITY OF TORONTO

2017	Innis College Later Life Learning OSOTF Award (\$1,336)	UNIVERSITY OF TORONTO
2016	Innis College Later Life Learning OSOTF Award (\$1,289)	UNIVERSITY OF TORONTO
2016	Beatty Scholarship (\$1,500)	UNIVERSITY OF TORONTO
2015	Entrance Scholarship (\$6,000)	UNIVERSITY OF TORONTO
2015	Canada Governor General's Academic Bronze Medal	WINNIPEG, MANITOBA

SKILLS

Experimental neuroscience: extracellular recording, surgery, slice preparation

Programming: Python, UNIX, MATLAB, \LaTeX , HTML, PyTorch

Natural Languages: Mandarin (native), English (fluent), French (basic)

TEACHING EXPERIENCE

Nov. 2019 – Mar. 2020	Volunteer Classroom Instructor	BRAINREACH, MONTRÉAL, CANADA
	Delivered introductory neuroscience classes to Grade 9 students of a secondary school in Montréal.	
Sep. 2018 – Apr. 2019	Teaching Assistant: MAT135 (Calculus I), MAT136 (Calculus II)	UNIVERSITY OF TORONTO
	Prepared and delivered tutorials; held office hours; graded assignment, tests, and exams; delivered a guest lecture.	
Sep. 2016 – Apr. 2018	Classroom Instructor	EASY GROUP INC., TORONTO, CANADA
	Prepared and delivered tutorials and exam review sessions on calculus and multivariable calculus.	

VOLUNTEER & COMMUNITY SERVICE

Nov. 2020	Montréal AI & Neuroscience (MAIN) Conference	ORGANIZER
May 2020	UNIQUE Student Symposium	ORGANIZER
May 2018 – Apr. 2019	First-year Learning Community, University of Toronto	PEER MENTOR
May 2018 – Apr. 2019	iConnect Mentorship Program, University of Toronto	EVENT LEADER
May 2017 – Apr. 2018	iConnect Mentorship Program, University of Toronto	MENTOR

GRADUATE COURSEWORK

Winter 2020	COMP767: Reinforcement Learning	A
Winter 2020	NEUR631: Principles of Neuroscience II	A
Fall 2019	NEUR630: Principles of Neuroscience I	A