Contact Information	614 York Hill Blvd. Vaughan, ON L4J 5L2, Canada	Phone: +1 (905) 882-9020 E-mail: mike.gimelfarb@mail.utoronto.ca		
Research Interests	I have recently completed a Postdoctora ner at the University of Toronto, resear making under uncertainty. My researce of reinforcement learning through know models of epistemic (Bayesian) uncertainty	Postdoctoral Fellow in the D3M Lab led by Prof. Scott San- onto, researching applied sequential planning and decision- My research has also focused on improving the reliability rough knowledge transfer, and by building and leveraging m) uncertainty and risk.		
Education	 University of Toronto, Toronto, ON, Canada Ph.D., Industrial Engineering Sep. 2017 – Dec. 2022 Thesis: Who Should I Trust? Using Uncertainty and Risk for Knowledge Transfer from Multiple Sources in Reinforcement Learning Domains Research Supervisors: Scott P. Sanner and Chi-Guhn Lee Affiliations: Data-Driven Decision Making (D3M) Lab, Dynamic Optimization & Operations Management Lab, Center for Maintenance Optimization and Reliability Engineering (C-MORE) GPA: 3.93/4 			
	 University of Toronto, Toronto, ON M.A.Sc., Operations Research Thesis: Thompson Sampling for th Research Supervisor: Michael J. K Affiliations: Center for Maintenance GPA: 3.93/4 	, Canada Sep. 2015 – Sep. 2017 e Control of a Queue with Demand Uncertainty im se Optimization and Reliability Engineering		
	 Schulich School of Business, York B.B.A., Spec. Hons. Administrative St Specialization: finance GPA: 8.2/9 in major (graduated w) 	University, Toronto, ON, Canada sudies Sep. 2010 – Jun. 2014 with distinction)		
Experience	 RVL Lab, Computer Science, Uni Postdoctoral Fellow Developing offline reinforcement lea using existing data sets and in sim Co-supervising an undergraduate s for policy evaluation. Working in collaboration with the 	versity of Toronto, Toronto, ON, Canada Jan. 2024 – Present rning algorithms for robust evaluation of policies ulation. student exploring the use of generative diffusion Toyota Research Institute.		

D3M Lab, University of Toronto, Toronto, ON, Canada

Postdoctoral Fellow

Jan. 2023 – Sep. 2023

- Coordinated a team of engineers and scientists to build a Python software package for automatic generation of OpenAI gym environments from planning domain language description files.
- Hosted the probabilistic track of the IPPC 2023 planning competition, wrote baselines, evaluation protocols and software documentation, presented software at industrial research labs, and managed continuous integration of bug fixes from user feedback and bug reports.
- Contributed novel deep learning algorithms for automated high-dimensional planning using JAX and TensorFlow.
- Contributed a novel bi-level optimization framework for robust and explainable planning using Gurobi.

Google DeepMind, London, U.K. (Remote)

Research Scientist, Intern, Reinforcement Learning Team Mar. 2022 – July 2022

- Derived a novel algorithmic framework for tackling never-ending reinforcement learning (NERL) more efficiently, by leveraging knowledge representation and transfer learning.
- Prototyped algorithms for internal research use in Python and JAX, submitted code for peer-review, and presented the solution to the research team, with a full-length paper under development.

Vector Institute, Toronto, ON, Canada

Postgraduate Affiliate

Apr. 2020 – Apr. 2022

- Participated in internal research discussions and gave presentations about recentlypublished papers in the area of reinforcement learning.
- Participated in assessment and adjudication of scholarship applications for the Vector Scholarship in Artificial Intelligence.

Russell Investments, Toronto, ON, Canada

Research Analyst, Intern

Research Assistant

Oct. 2014 – May 2015

- Performed data analysis to summarize trends in clients' institutional asset allocations and competing mutual funds, and prepared reports for the sales and portfolio management teams that assisted in adjusting internal product offerings.
- Developed a robust VBA application from scratch to automate the processing of semi-structured client data, using natural language processing techniques such as fuzzy string matching, to reduce manual work by as much as 90%.

Dept. of Science and Engineering, York University, Toronto, ON, Canada Research Assistant May 2014 – Oct. 2014

- Collaborated on a research project using multivariate statistical models (copulas) to derive novel pricing formulas for joint life insurance and annuities.
- Developed algorithms for pricing policies using real mortality data from the Canadian government.

Schulich School of Business, York University, Toronto, ON, Canada

Nov. 2013 – Sep. 2014

 Collaborated on a research project by using C#, HTML and RESTful APIs to extract and process large volumes of unstructured data from corporate 13F/13D filings in EDGAR, to determine whether hedge funds and sell-side analysts collude.

PROFESSIONAL Journal Reviewing

ACTIVITIES	– Machine Learning Journal (MLJ)	2018, 2019
	Conference Reviewing	
	– International Conference on Machine Learning (ICML)	2023
	– Association for the Advancement of Artificial Intelligence (AAAI)	2021, 2023
	– International Conference on Learning Representations (ICLR)	2021
	– Neural Information Processing Systems (NeurIPS)	2018, 2021
	- Uncertainty in Artificial Intelligence (UAI)	2018, 2019
	 International Talks Canadian Operations Research Society (CORS) Conference (Virtual) Institute of Industrial Systems Engineers (IISE) Conference (Virtual) 	Jun. 2021 May 2021
	International Competitions Technical team for International Planning Competition 2023: Probabilistic & RL Track (ICAPS) Oct. 2022 – Now 	

TEACHING Teaching Assistant

_	Preparing exercises for a new textbook on MDPs/RL	written by Prof. Tim Chan
	and Prof. Martin Puterman, UofT	Fall $2021 - Now$
_	Dynamic Distributed Decision Making, UofT	Fall 2018, Winter 2020
_	Stochastic Processes, UofT	Fall 2019
—	Statistics and Design of Experiments, UofT	Winter 2017
_	Stochastic Processes, UofT Statistics and Design of Experiments, UofT	Fall 20 Winter 2

Awards	_	University of Toronto Sep	p. 2017, 2020
		Ontario Graduate Scholarship (\$15,000)	
	_	Didi Chuxing Technology Co	Apr. 2020
		DiDi Graduate Student Award (\$10,000)	
	_	Vector Institute Ap	r. 2020, 2021
		Postgraduate Affiliate Program (\$6,000)	
	_	York University Nov. 201	3, 2014, 2015
		Chair's Honor List	
	_	University of Toronto	Sep. 2015
	Ivara Corporation Bill Shaw Memorial Scholarship (\$5,00		
	_	York University	Oct. 2015
	Golden Key International Honour Society		
	_	York University	Nov. 2014
		eorge R. and Mary L. Wallace Award for Excellence in Actuarial M	
		ematics (\$1,500)	
	_	York University	Aug. 2014
	York University Continuing Student Scholarship (\$720)		
	_	York University	Nov. 2013
	Joshua Tan Memorial Scholarship (\$425)		
	_	York University	Sep. 2010
		York University Entrance Scholarship (\$2,000)	

COMPUTER Languages & Software: Python (including JAX, TensorFlow, Keras, PyTorch), Java, SKILLS Visual Basic, C#, Basic C++, Docker, Git GitHub: https://github.com/mike-gimelfarb