Alan Chan alan.chan@mila.queb	ec achan.ca	Substack	Google Scholar			
Research Statement	a wide variety of comm	ercial, scientific, go	agents substitute for human labou vernmental, and personal activitie s and an evaluation ecosystem.			
Academic Background	 Ph.D. Computer Sci Université de Montréal Advised by Nicola 	and Mila, Montréa		cpected)		
	 M.Sc. Computer Science 20 University of Alberta, Edmonton, Canada Specialization in statistical machine learning, advised by Martha White. 					
	• Thesis: Greedification ward and Reverse		Policy Optimization: Investigate	ing For-		
	 B.Sc. Mathematics University of Alberta, F Thesis title: A Co 		ent Particle Filters.	2018		
Professional Experience	Research ScholarCentre for the GovernationWorking on how t		Oct. 2023 - O	ct. 2024		
	Research Visitor Cambridge University, (• Hosted by Dr. Da	•	Oct. 2022 - Aj	pr. 2023		
	• Projects include: public data trusts for training data, harms from increasingly agentic systems, characterizing AI manipulation.					
		nada ch on gaps in the p	Feb. 2023 - Ma roposed bill C-27 on AI regulation			
	the Canadian HouCo-authored a point					
	Summer Research F Center on Long-Term F • Supervised by Jes	tisk, London, UK	June 2022 - De	ec. 2022		
	• Led a project to evaluate cooperativeness in language models.					
	Intern Research Scie Huawei Canada - Noah • Supervised by Da	's Ark, Edmonton,	May 2019 - Ja Canada	an. 2020		
	• Contributed to a in reinforcement l		ng the stability of value-based alg	orithms		
	Student Researcher University of Alberta, H	Edmonton, Canada	Jan. 2018 - Aj	pr. 2019		

- Supervised by Dr. Michael Kouritzin.
- Developed faster particle filters for dynamic time series estimation.

Student Researcher

May 2018 - June 2018

University of Alberta, Edmonton, Canada Edmonton, Canada • Supervised by Dr. Xinwei Yu.

• Developed understanding the differential geometry of map projections of the earth.

Student Researcher

University of Alberta, Edmonton, Canada

- Supervised by Dr. Xinwei Yu.
- Studied the energy method for solution of non-linear PDEs.

Research Student

University of Alberta, Edmonton, Canada

- Supervised by Dr. Jack Tuszynski.
- Performed data-mining to help determine the mechanism of action for a specific drug

	drug.				
	Research StudentMay 20University of Alberta, Edmonton, Canada• Supervised by Dr. Jack Tuszynksi.	16 - Aug. 2016			
	• Led a project on the use of fractal dimension as a feature in the diagnosis of breast cancer.				
Grants and Awards	• Long-Term Future Fund Grant: 10 500 GBP	2023			
	• Open Philanthropy Early-Career Funding: 16 000 USD	2022-24			
	• Top 10% reviewer for NeurIPS				
	• Queen Elizabeth II Graduate Scholarship: 6 000 CAD				
	• NSERC Summer Research Grant: 8 000 CAD	2018			
	• NSERC Summer Research Grant: 8 000 CAD				
	• Yahya Mathematics Scholarship	2017			
	• Erist Wilson Sheldon Memorial Prize in Mathematics	2017			
	• A. Murray Thomas Gibson Memorial Scholarship in Mathemati	cs 2016			
	• University of Alberta Summer Research Grant: 8 000 CAD				
	• Cyril G. Wates Memorial Scholarship	2016			
	• International Baccalaureate Diploma Scholarship	2014			
	• Robert Tegler Entrance Scholarship	2014			
		0014			

• Alexander Rutherford Scholarship 2014

May 2017 - Aug. 2017

May 2017 - Aug. 2017

Refereed Papers	9.	 Alan Chan, Carson Ezell, Max Kaufmann, Kevin Wei, Lewis Hammond, H bie Bradley, Emma Bluemke, Nitarshan Rajkumar, David Krueger, Noam Ko Lennart Heim, Markus Anderljung. Visibility into AI Agents, FAccT 2024, Ju 2024. 	
	8.	Stephen Casper, Carson Ezell, Charlotte Siegmann, Noam Kolt, Taylor Lynn Curtis, Benjamin Bucknall, Andreas Haupt, Kevin Wei, Jérémy Scheurer, Marius Hobbhahn, Lee Sharkey, Satyapriya Krishna, Marvin Von Hagen, Silas Alberti, Alan Chan , Qinyi Sun, Michael Gerovitch, David Bau, Max Tegmark, David Krueger, Dylan Hadfield-Menell . Black-Box Access is Insufficient for Rigorous AI Audits , <i>FAccT 2024</i> , June 2024.	
	7.	Micah Carroll [*] , Alan Chan [*] (joint first author), Henry Ashton. Characteriz- ing Manipulation from AI Systems, <i>EAAMO 2023</i> , Oct. 2023.	
	6.	Alan Chan, Herbie Bradley, Nitarshan Rajkumar. Reclaiming the Digital Commons: Public Data Trusts for Training Data, <i>AIES 2023</i> , Aug. 2023.	
	5.	Alan Chan , Rebecca Salganik, Alva Markelius, Chris Pang, Nitarshan Rajkumar, Dmitrii Krasheninnikov, Lauro Langosco, Zhonghao He, Yawen Duan, Micah Carroll, Michelle Lin, Alex Mayhew, Katherine Collins, Maryam Molamohammadi, John Burden, Wanru Zhao, Shalaleh Rismani, Konstantinos Voudouris, Umang Bhatt, Adrian Weller, David Krueger, Tegan Maharaj. Harms from Increasingly Agentic Algorithmic Systems, <i>FAccT 2023</i> , June 2023.	
	4.	Alan Chan, Hugo Silva, Sungsu Lim, Tadashi Kozuno, A. Rupam Mahmood, Martha White. Greedification Operators for Policy Optimization: Investigating Forward and Reverse KL Divergences, <i>JMLR</i> , Aug. 2022.	
	3.	Somjit Nath, Vincent Liu, Alan Chan , Adam White, Martha White. Training Recurrent Neural Networks Online by Learning Explicit State Variables, <i>ICLR</i> 2020, Apr. 2020.	
	2.	Kris De Asis, Alan Chan , Silviu Pitis, Richard S. Sutton, and Daniel Graves. Fixed-horizon Temporal Difference Methods for Stable Reinforcement Learning, <i>AAAI 2020</i> , Feb. 2020.	
	1.	Alan Chan and Jack A. Tuszynski. Automatic Prediction of Tumour Malig- nancy in Breast Cancer with Fractal Dimension Royal Society Open Science, Dec. 2016.	
Other Papers	9.	Ross Gruetzemacher, Alan Chan , Štěpán Los, Kevin Frazier, Siméon Campos, Matija Franklin, James Fox, Jose Hernandez-Orallo, Christin Manning, Philip Tomei, Kyle Kilian. An International Consortium for AI Risk Evaluations, <i>Socially Responsible Language Modelling Research Workshop at NeurIPS 2023</i> , Dec. 2023.	
	8.	Gabriel Mukobi, Hannah Erlebach, Niklas Lauffer, Lewis Hammond, Alan Chan [*] , Jesse Clifton [*] . Welfare Diplomacy: Benchmarking Language Model Cooperation, Under review, Sep. 2023.	
		. Alan Chan, Maxime Riché, Jesse Clifton. Towards the Scalable Evaluation of Cooperativeness in Language Models, <i>Preprint</i> , Mar. 2023.	
		Montréal Society and Artificial Intelligence Collective. Comments on the Toronto Police Services Board Proposed Policy on AI Technologies, Dec. 2021.	
	5.	Andrew Jacobsen, Alan Chan. Parameter-free Gradient Temporal Difference Learning, May 2021.	
	4.	Alan Chan. Scoring Rules for Performative Binary Prediction, Strategic ML workshop at NeurIPS 2021, Dec. 2021.	

	3. Alan Chan. Loss of Control: Normal Accidents and A AI Workshop at ICLR 2021, May 2021.	AI Systems, Responsible		
	 Alan Chan, Chinasa Okolo, Zach C. Terner, Angelin Global Inclusion in AI Development, <i>Rethinking Diver</i> AAAI 2021, Feb. 2021. 	-		
	1. Alan Chan, Kris De Asis, Richard S. Sutton. Inverse Value-based Sequential Decision-making, Aug. 2020.	e Policy Evaluation for		
Articles	1. Jan Brauner [*] , Alan Chan[*] . AI Poses Doomsday Risks—But That Doesn't Mean We Shouldn't Talk About Present Harms Too, <i>Time</i> , Aug. 2023.			
Supervision	7. Ben Bucknall. Krueger Lab Internship.	June 2023 - Jan. 2024		
	6. Gabriel Mukobi. Existential Risk Alliance Fellowship.	June 2023 - Sep. 2023		
	5. Gabriel Weil. PIBBSS Fellowship.	June 2023 - Aug. 2023		
	4. Sammy Martin. PIBBSS Fellowship.	June 2023 - Aug. 2023		
	3. Stuart Burrell, Niki Kyriacou, Hadyn Cheong, Aafiya Hussain, Talha Chafekar. Cambridge AI Safety Labs. Dec. 2022 - Sep. 2023			
	2. Anish Upadhayay. Undergraduate research.	June 2022 - Sep. 2022		
	1. Kay Kozaronek. CHERI Summer Fellowship.	June 2022 - Aug. 2022		
Talks	 Technical AI Governance. Vector AI Safety Group, Top 2023 	ronto, Canada. Sep.		
	6. Technical AI Governance. Concordia AI, Beijing, China. Jul. 2023			
	 Briding AI Safety with Other Fields. PIBBSS Speaker Series, Prague, Czechia (Virtual). Jul. 2023 			
	4. The Case for AI Governance. Cambridge AI Safety Hub, Cambridge, UK. Apr. 2023			
	 Alignment. Digital Law and Innovation Society, Edmonton, Canada (Virtual). Mar. 2021 			
	 Colonialism and AI Development. Mila, Montréal, QC, Canada (Virtual). Feb. 2021 			
	1. Problems with Fair Machine Learning. University of Alb July 2020	perta, Edmonton, Canada.		
Other Activities	• Reviewer for NeurIPS, ICML, ICLR, TMLR, FAccT.	2019 - Present		
	• Mentor for PIBBSS Fellowship.	May 2023 - Aug 2023		
	• Research supervisor for Cambridge AI Safety Labs.	Dec. 2022 - Sep 2023		
	• Mentor for AGI Safety Fellowship, Cambridge, UK.	Oct. 2022 - Dec. 2022		
	• Mentor for Deep Learning Indaba.	Feb. 2021 - Jan. 2023		
	• Member of the Mila EDI committee.	Aug. 2021 - May 2022		
	• Organizer of the Mila AI Governance Reading Group.	Nov. 2020 - Mar. 2022		
	• Lecturer and mentor for the MISE Foundation.	June 2021 - July 2021		
	• Teacher Assistant for the AI4Good Lab	June 2020 - July 2020		
	• Volunteer for the UAlberta Sexual Assault Centre.	Sep. 2017 - May 2019		

• VP Training of the UAlberta Debate Society.	May 2017 - May 2018
• Volunteer for The Landing	Sep. 2015 - Sep. 2017

• Competitive debate regionally, nationally, and internationally. 2011 - 2018