Alan Chan alan.chan@mila.queb	bec achan.ca	Substack	Google Scholar			
Research Statement	I work on how to manage risks from AI agents as they become increasingly capable of automating a wide variety of commercial, scientific, governmental, and personal activities. Much of my current focus is on figuring out what technical infrastructure we need to understand and respond to problems that agents may cause.					
Academic Background	 Ph.D. Computer Scie Université de Montréal a Advised by Nicolas 	nd Mila, Montréa				
	• Thesis: Technical Methods for Governing AI Agents.					
	M.Sc. Computer Scie University of Alberta, Ed • Specialization in st	lmonton, Canada	2020 learning, advised by Martha White.			
	• Thesis: Greedificat ward and Reverse		Policy Optimization: Investigating For-			
	B.Sc. MathematicsUniversity of Alberta, EcoThesis title: A Cor		2018 ent Particle Filters.			
Professional Experience	Research Fellow Centre for the Governand • Performing research		Oct. 2024 - Now f AI agents.			
	• Policy advising for various stakeholders in government and civil society.					
	_	n on technical met	Oct. 2023 - Oct. 2024 hods for enabling better governance of Al and IDs for AI Systems.			
	0	· ·	ers in government and civil society.			
	Research Visitor Cambridge University, C • Hosted by Dr. Day	0,	Oct. 2022 - Apr. 2023			
		rms from Increasi	Digital Commons: Public Data Trusts for ngly Agentic Algorithmic Systems, Char- tems.			
	Contract Researcher CEIMIA, Montréal, Can		Feb. 2023 - Mar. 2023 roposed bill C-27 on AI regulation before			
	the Canadian Hous	e of Commons.	roposed one O-27 on AI regulation before			
	• Co-authored a poli	cy report.				
	Summer Research Fel Center on Long-Term Ri • Supervised by Jess	sk, London, UK	June 2022 - Dec. 2022 an Stastny.			

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- Student Researcher Jan. 2018 - Apr. 2019 University of Alberta, Edmonton, Canada • Supervised by Dr. Michael Kouritzin. • Developed faster particle filters for dynamic time series estimation. Student Researcher University of Alberta, Edmonton, Canada Edmonton, Canada • Supervised by Dr. Xinwei Yu. earth. Student Researcher May 2017 - Aug. 2017 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. drug. **Research Student** May 2016 - Aug. 2016 University of Alberta, Edmonton, Canada • Supervised by Dr. Jack Tuszynksi. breast cancer.
- Contributed to a project on improving the stability of value-based algorithms in reinforcement learning.

• Led a project to evaluate cooperativeness in language models.

Intern Research Scientist

Grants and

Awards

• Supervised by Daniel Graves.

Huawei Canada - Noah's Ark, Edmonton, Canada

• Developed understanding the differential geometry of map projections of the

- Performed data-mining to help determine the mechanism of action for a specific
- Led a project on the use of fractal dimension as a feature in the diagnosis of

• Long-Term Future Fund Grant (for Cambridge research visit): 10 500 GBP 2023

- Open Philanthropy Early-Career Funding: 16 000 USD 2022-24
- Top 10% reviewer for NeurIPS 2020 • Queen Elizabeth II Graduate Scholarship: 6 000 CAD 2018 • NSERC Summer Research Grant: 8 000 CAD 2018
- NSERC Summer Research Grant: 8 000 CAD 2017
- Yahya Mathematics Scholarship 2017 • Erist Wilson Sheldon Memorial Prize in Mathematics 2017
- A. Murray Thomas Gibson Memorial Scholarship in Mathematics 2016
- University of Alberta Summer Research Grant: 8 000 CAD 2016
- Cyril G. Wates Memorial Scholarship 2016

May 2019 - Jan. 2020

May 2018 - June 2018

May 2017 - Aug. 2017

	٠	International Baccalaureate Diploma Scholarship	2014
	٠	Robert Tegler Entrance Scholarship	2014
	•	Alexander Rutherford Scholarship	2014
Refereed Papers	9.	Alan Chan, Carson Ezell, Max Kaufmann, Kevin Wei, Lewis Hammond, bie Bradley, Emma Bluemke, Nitarshan Rajkumar, David Krueger, Noam Lennart Heim, Markus Anderljung. Visibility into AI Agents, <i>FAccT 2024</i> , 2024.	Kolt,
	8.	Stephen Casper, Carson Ezell, Charlotte Siegmann, Noam Kolt, Taylor Curtis, Benjamin Bucknall, Andreas Haupt, Kevin Wei, Jérémy Scheurer, ius Hobbhahn, Lee Sharkey, Satyapriya Krishna, Marvin Von Hagen, Sila berti, Alan Chan , Qinyi Sun, Michael Gerovitch, David Bau, Max Tegr David Krueger, Dylan Hadfield-Menell . Black-Box Access is Insufficien Rigorous AI Audits , <i>FAccT 2024</i> , June 2024.	Mar- as Al- mark,
	7.	Micah Carroll [*] , Alan Chan [*] (joint first author), Henry Ashton. Charac ing Manipulation from AI Systems, <i>EAAMO 2023</i> , Oct. 2023.	teriz-
	6.	Alan Chan, Herbie Bradley, Nitarshan Rajkumar. Reclaiming the D Commons: Public Data Trusts for Training Data, AIES 2023, Aug. 2023	-
	5.	Alan Chan, Rebecca Salganik, Alva Markelius, Chris Pang, Nitarshar jkumar, Dmitrii Krasheninnikov, Lauro Langosco, Zhonghao He, Yawen I Micah Carroll, Michelle Lin, Alex Mayhew, Katherine Collins, Maryam lamohammadi, John Burden, Wanru Zhao, Shalaleh Rismani, Konstar Voudouris, Umang Bhatt, Adrian Weller, David Krueger, Tegan Maharaj. from Increasingly Agentic Algorithmic Systems, <i>FAccT 2023</i> , June 2023.	Duan, Mo- ntinos
	4.	Alan Chan, Hugo Silva, Sungsu Lim, Tadashi Kozuno, A. Rupam Mahn Martha White. Greedification Operators for Policy Optimization: Investig Forward and Reverse KL Divergences, <i>JMLR</i> , Aug. 2022.	
	3.	Somjit Nath, Vincent Liu, Alan Chan , Adam White, Martha White. Tra Recurrent Neural Networks Online by Learning Explicit State Variables, 2020, Apr. 2020.	
	2.	Kris De Asis, Alan Chan , Silviu Pitis, Richard S. Sutton, and Daniel Gr Fixed-horizon Temporal Difference Methods for Stable Reinforcement Lear <i>AAAI 2020</i> , Feb. 2020.	
	1.	Alan Chan and Jack A. Tuszynski. Automatic Prediction of Tumour M nancy in Breast Cancer with Fractal Dimension Royal Society Open Sci Dec. 2016.	0
Other Papers 1	L1.	Alan Chan, Kevin Wei, Sihao Huang, Nitarshan Rajkumar, Elija Perrier, Lazar, Gillian K. Hadfield, Markus Anderljung. Infrastructure for AI Agunder review.	
1	10.	Alan Chan , Noam Kolt, Peter Wills, Usman Anwar, Christian Schroed Witt, Nitarshan Rajkumar, Lewis Hammond, David Krueger, Lennart H Markus Anderljung. IDs for AI Systems, <i>under review</i> .	
	9.	Ross Gruetzemacher, Alan Chan , Štěpán Los, Kevin Frazier, Siméon Car Matija Franklin, James Fox, Jose Hernandez-Orallo, Christin Manning, F Tomei, Kyle Kilian. An International Consortium for AI Risk Evaluar Socially Responsible Language Modelling Research Workshop at NeurIPS Dec. 2023.	Philip tions,

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	 Gabriel Mukobi, Hannah Erlebach, Niklas Lauffer, Lewis Hammond, Alan Chan*, Jesse Clifton*. Welfare Diplomacy: Benchmarking Language Model Cooperation, Preprint, Sep. 2023.
	7. Alan Chan, Maxime Riché, Jesse Clifton. Towards the Scalable Evaluation of Cooperativeness in Language Models, <i>Preprint</i> , Mar. 2023.
	6. 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 AI Systems, Responsible AI Workshop at ICLR 2021, May 2021.
	2. Alan Chan, Chinasa Okolo, Zach C. Terner, Angelina Wang. The Limits of Global Inclusion in AI Development, Rethinking Diversity in AI workshop at AAAI 2021, Feb. 2021.
	1. Alan Chan, Kris De Asis, Richard S. Sutton. Inverse Policy Evaluation for Value-based Sequential Decision-making, Aug. 2020.
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	10. Neel Alex. GovAI Summer Fellowship. June 2024 - Aug 2024
	9. Arjun Karanam. GovAI Summer Fellowship. June 2024 - Aug 2024
	8. Carson Ezell. Existential Risk Alliance Fellowship. May 2024 - Now
	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	 Governing AI Agents. ICML 2024 workshop on Trustworthy Multi-modal Foun- dation Models and AI Agents, Vienna, Austria. Jul. 2024
	8. Infrastructure for AI Agents. RAND, Washington, DC, USA. May 2024
	7. Technical AI Governance. Vector AI Safety Group, Toronto, Canada. Sep. 2023
	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 Alberta, Edmonton, Canada. July 2020
Other Activities	• Reviewer for NeurIPS, ICML, ICLR, TMLR, FAccT. 2019 - Present
	• Organizer of the Socially Responsible Language Modelling (SoLaR) workshop at NeurIPS 2023. Dec. 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