Dr. Catherine Stinson

Philosophy Department & School of Computing
Queen's University

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EDUCATION

PhD: University of Pittsburgh, History & Philosophy of Science 2013

MSc: University of Toronto, Computer Science 2002

BSc: University of Toronto, Cognitive Science & Artificial Intelligence 1999

EMPLOYMENT

Visiting Faculty Fellow Centre for Ethics, University of Toronto 2026–2027

Associate Professor 2026 –
Philosophy Department & School of Computing, Queen's University

Assistant Professor and Queen's National Scholar in Philosophical Implications of Artificial Intelligence 2020–2026
Philosophy Department & School of Computing, Queen's University
Affiliate Member: Ingenuity Labs, Cultural Studies Program

Postdoctoral Fellow in Philosophy and Ethics of Artificial Intelligence 2019–2020
Leverhulme Centre for the Future of Intelligence, University of Cambridge & Universität Bonn

Senior Policy Associate 2018
The Mowat Centre, School of Global Affairs and Public Policy, University of Toronto

Postdoctoral Scholar in Philosophy of Neuroscience 2015–2017
Rotman Institute of Philosophy, University of Western Ontario

Assistant Professor (Fixed term) 2014–2015
Philosophy Department, Toronto Metropolitan University (formerly Ryerson)

Postdoctoral Fellow in Visual Embodiment 2012–2013
Centre for Integrative Neuroscience & Max Planck Institute for Biological Cybernetics, Tübingen

Predoctoral Fellow Max Planck Institute for History of Science, Berlin 2010

Web Developer 2002–2011
Bildwechsel, V-tape, CONTACT Photography Festival, Splice This!, Mammalian Diving Reflex, NOW Magazine, Democracy Now!

AWARDS

- Best Paper Honourable Mention for "GlassIO" 2026
  ACM Tangible Embedded and Embodied Interaction
- Outstanding Certification Finalist for "Beyond the Imitation Game" 2025
  Transactions in Machine Learning Research
- Best Student Paper Award, *International Association for Computing and Philosophy* 2011
- Essay Competition Shortlist, *ESF Consciousness in a Natural and Cultural Context* 2008

GRANTS

1. Co-Applicant, SSHRC Insight Grant, "Necro-Extractivism: Algorithmic Warfare, 'Kill Clouds', and the Racial Political Economy of Security Imperialism" (PI: Norma Moellers) $348,787 2026–2030
2. Co-Applicant, NSERC CREATE, "Transforming Scientific Computing Training to Advance Molecular Modeling in the Age of Artificial Intelligence" (PI: Paul Ayers) $1,650,000 2026–2032
3. PI, SSHRC Insight Development Grant, "Eliza's Ghosts: Can Chatbots be Psychotherapists?" $50,000 2025–2027

4. Co-Applicant, SSHRC Insight Grant, "Tracking (In)Justice: Advancing new knowledge on police involved deaths in Canada" (PI: Alexander McClelland) $228,205 2024–2028
5. Co-Applicant, Community-Engaged Research Cluster Catalyst Initiation Grant, "Transformative Technologies for Social Good and Community Engagement" (PI: Richard Reeve) $15,000 2024–2026
6. PI, Queen's Faculty of Arts & Science New Faculty Infrastructure Fund, "Computational Infrastructure for Ethical AI and Digital Humanities" $119,826 2023–2026
7. PI, Office of the Privacy Commissioner Contributions Program, "Large Language Models and the Disappearing Private Sphere" $50,000 2023–2024
8. Co-Investigator, NIH, National Cancer Institute (Supplement), "Development and Validation of Prognostic Radiomic Markers of Response and Recurrence for Patients with Colorectal Liver Metastases" (PIs Richard Do, Amber Simpson) $251,390 US 2022–2024
9. Collaborator, SSHRC Partnership Development Grant, "Tracking (In)Justice: a publicly accessible online database of police-involved and carceral deaths across Canada" $195,970 2022–2024
10. PI, SSHRC Institutional Grant, "Kickstarting Philosophy of Deep Learning" $7,000 2021–2023
11. Collaborator, BMBF, "Ubiquitous Digital Empathic Therapy Assistance" €2,000,000 2021–2023
12. Collaborator, NFRF Grant, "Zero-Gravity 3D Printing of Super-Soft Materials" $200,000 2019–2021

Under Review

1. Collaborator, NFRF Exploration, "Neuro-Robotic Performance" (PI: Gunnar Blohm)
2. Collaborator, CFI IF, "Human-Aligned Physical AI: An Integrated Research Environment for Neuro-Robotic Co-Adaptation" (PIs: Gunnar Blohm, Josh Marshall)

PUBLICATIONS

Peer-Reviewed Articles (* trainees)

1. MacLean, S.J. & **Stinson, C.** (forthcoming). Infernal Knowledge Machines: AI and Epistemic Model Collapse. *Journal of Philosophy of Education*.
2. Abdalla, M., Abdalla, S., Cappello, A.*, Dowling, K., Metaxa, D., Widder, D. & **Stinson, C.** (forthcoming). Cost-of-Ethics Crisis: Surveying the Ethical Views of Job-Seeking Canadian and US Computer Science Students. *Artificial Intelligence, Ethics and Society (AIES 2026)*.
3. Dada, M.*, Xie, W.*, Vlaad, S.* & **Stinson, C.** (2026). Whats in a Name?: Pre-crime Biases in Generative AI. *International Conference on Large Language Models, LLM 2025*. ☞.
4. D. Gagnon-King, Jones, L., Gamayunova, A.*, Litwiniuk, S., Chen, X., Liu, A., **Stinson, C.** & Nabil, S. (2026). GlassIO: Long-Term In-Home Study of Hybrid Craft Through Interactive Stained Glass. *ACM Conference on Tangible, Embedded, and Embodied Interaction, TEI2026*. ☞.
5. Cappello, A.* & **Stinson, C.** (2026). The Challenges of Big Data and AI for Research Ethics in Canada: A Survey of University REBs. *Journal of Empirical Research on Human Research Ethics*. ☞
6. Khan, R.F.*, Sauve, A*, Bayoumi, I., Simpson, A. & **Stinson, C**. (2026). The Patient/Industry Tradeoff in Medical AI. *AI and Ethics*, 6(1), 99. ☞
7. Crosby, A., McClelland, A., Sharpe, T., Maeder, E., **Stinson, C.**, Samuels Wortley, K., Graham, K., Khan, R.F.* and Lin, Z. (2025). Police Use of Force-Involved Deaths in Canada. *Canadian Journal of Law and Society*. ☞
8. Grigoreva, V.*, **Stinson, C.** & Muise, C. (2025). Analysis of Linguistic Effects of Self-Consuming Training. *IEEE Artificial Intelligence Models and Systems*. ☞.
9. Khan, R.* & **Stinson, C.** (2025). Auditing Facial Emotion Recognition Datasets for Posed Expressions and Racial Bias. *IEEE Artificial Intelligence Models and Systems*. ☞.

10. Aitken, W.*, Abdalla, M., Rudie, K. & **Stinson, C.** (2024). Collaboration or Corporate Capture? Quantifying NLP's Reliance on Industry Artifacts and Contributions. *Annual Meeting of the Association for Computational Linguistics*. ☞
11. Oreamuno, E. L.*, Khan, R. F.*, Bangash, A. A., **Stinson, C.** & Adams, B. (2024). The State of Documentation Practices of Third-Party Models and Datasets: A Mixed-Methods Empirical Study. *IEEE Software*. ☞
12. **Stinson, C.** & Vlaad, S.* (2024). A Feeling for the Algorithm: Diversity and Expertise in Artificial Intelligence. *Big Data & Society*. ☞
13. Srivastava, A., Rastogi, A., Rao, A., Shoeb, A. A. M., Abid, A., Fisch, A., ..., **Stinson, C.**, ... et al. (438 additional authors). (2023). Beyond the Imitation Game: Quantifying and extrapolating the capabilities of language models. *Transactions on Machine Learning Research*, 2835-8856. ☞.
14. Robertson, J., **Stinson, C.** & Hu, T. (2022). A Bio-Inspired Framework for Machine Bias Interpretation. *AAAI/ACM Conference on AI, Ethics, and Society, AIES '22*. 588–598. ☞
15. Neophytou, N.*, Mitra, B. & **Stinson, C.** (2022). Revisiting Popularity and Demographic Biases in Recommender Evaluation and Effectiveness. In *Advances in Information Retrieval. ECIR 2022. Lecture Notes in Computer Science* 13185. Springer. ☞
16. **Stinson, C.** (2022). Algorithms are not Neutral: Bias in Collaborative Filtering. *AI and Ethics*. ☞
17. **Stinson, C.** (2020) From Implausible Artificial Neurons to Idealized Cognitive Models: Rebooting Philosophy of Artificial Intelligence. *Philosophy of Science*. 87(4), 590–611. ☞
18. **Stinson, C.** (2019) The Absent Body in Psychiatric Diagnosis, Treatment, and Research. *Synthese*. 196(6), 2153-2176. ☞
19. **Stinson, C.** (2016) Mechanisms in Psychology: Ripping Nature at its Seams. *Synthese*. 193(5), 1585-1614. ☞
20. Piryankova, I.V., Wong, H.Y., Linkenauger, S., **Stinson, C.**, Longo, M., Bülthoff, H.H., Mohler, B.J. (2014) Owning an Overweight or Underweight Body: Distinguishing the Physical, Experienced and Virtual Body. *PLOS One* 9(8): e103428. ☞
21. **Stinson, C.** (2009) Searching for The Source of Executive Attention. *PSYCHE* 15(1): 137-154. ☞

Book Chapters

1. **Stinson, C.** (2026). Genius, Child or Fake: How to Achieve Artificial General Intelligence. In *Introducing Philosophy of Mind, Today*, Eds. Curry, D., Daoust, L. Routledge. ☞
2. **Stinson, C.** (2025). Raising an AI Teenager. In *The Philosophy of Ted Chiang*, Ed. D. Friedell. Palgrave McMillan. ☞
3. **Stinson, C.** (2024). What are Large Language Models Made of?. In *Leading the Way: Envisioning the Future of Higher Education*, Eds. M. E. Norris and S. M. Smith. ☞
4. **Stinson, C.** (2018). Explanation and Connectionist Models. In *The Routledge Handbook of the Computational Mind*, Eds. M. Colombo and M. Sprevak. 120–133.
5. **Stinson, C.** & Sullivan, J. (2017). Mechanistic Explanation in Neuroscience. In *The Routledge Handbook of Mechanisms and Mechanical Philosophy*, Eds. S. Glennan and P. Illari. 375–388.
6. **Stinson, C.** (2017). Back to the Cradle: Mechanism Schemata from Piaget to DNA. In *Eppur si muove: Doing History and Philosophy of Science with Peter Machamer*, Eds. M. Abrams, Z. Biener, U. Feest, J. Sullivan. Springer. 183–194.

Commentaries & White Papers

1. **Stinson, C.** (2026). Engagement versus Therapeutic Alliance: Large Language Models in AI Psychotherapy. *American Journal of Bioethics*. 26(2), 81-82. ☞

2. Cappello, A.*, Dada, M.*, Grigoreva, V.*, Khan, R.*, **Stinson, C.**, Stuart, H.* (2024). Large Language Models and the Disappearing Private Sphere. *Office of the Privacy Commissioner of Canada.* ☞
3. **Stinson, C.** (2021) The Dark Past of Algorithms That Associate Appearance and Criminality. *American Scientist*, 109:1(26). ☞
4. **Stinson, C.** (2020). Agency and Ethics in a Complex World. *Future EDge*, Issue 2. *New South Wales Department of Education.* ☞
5. **Stinson, C.** (2020) Algorithms Associating Appearance and Criminality Have a Dark Past. *Aeon.* ☞
6. **Stinson, C.**, L. James, M. Abdalla, N. Moellers, S. Mosurinjohn, S. Phillips & A. Simpson. (2020). Limit Corporate Influence, Maximize Public Involvement and Accountability. *New Digital Research Infrastructure Organization.* ☞
7. **Stinson, C.** (2018). Healthy Data: Policy Solutions for Big Data and AI Innovation in Health. *The Mowat Centre.* ☞

Work in Progress

1. Ferguson, V.*, Sauve, A.*, Rowe, R., **Stinson, C.** & Simpson, A. (R&R). Racial Disparities in Colorectal Cancer and the Use of Artificial Intelligence for Cancer Prediction and Management. *BMC Cancer.*
2. Brink, B.* & **Stinson, C.** (under review). Iterative Validity: AI Benchmarks and Mental Health Chatbots. *Philosophical Issues.*
3. **Stinson, C.** (in progress). Winterizing AI: Critique and Scientific Progress.
4. Hicks, D., **Stinson, C.**, Wu, J., Pedersen, R., & Vlaad, S.* (in progress). Academic Philosophy and Trans Identity.
5. Cappello, A.*, Fabricius, A. & **Stinson, C.** (in progress). Privacy in the Use of Chatbots for Mental Health.
6. Pivato, J. & **Stinson, C.** (in progress). The Hypersensory Homonculus. (performance piece)

Popular Writing

1. **Stinson, C.** (2019) 10 Things Every Voter Should Care About This Election: Artificial Intelligence. *THIS Magazine.* ☞
2. **Stinson, C.** (2019) How Climate Change Will Impact Your Region Of Canada. *Chatelaine.* ☞
3. **Stinson, C.** (2019) Tough Love: Consent in Violent Sports in the Age of #MeToo. *Chatelaine.*
4. **Stinson, C.** (2018). I Read the Terms of Service so you Don't Have to. *The Mowat Centre.*
5. **Stinson, C.** (2018) Is My Fungus Going Viral?: Privacy in Digital Health. *The Globe and Mail.* ☞
6. **Stinson, C.** (2018) Deep Learning: Why It's Time for Artificial Intelligence to Get Philosophical. *The Globe and Mail.* ☞

Craft Publications

1. **Stinson, C.** (2017) DIY: Mend, Dont Spend! *Shameless Magazine.* Issue 36.
2. **Stinson, C.** (2005) DIY: T-Shirt Underwear. *Shameless Magazine.* Issue 3.
3. **Stinson, C.** (2004) Powerful Wrist Protection. *Stitch 'n Bitch: The Knitter's Handbook*, Ed. Debbie Stoller. Workman Press. ☞
4. **Stinson, C.** (2004) Wonderwoman and Queen of Hearts. *Stitch 'n Bitch: The Knitter's Handbook*, Ed. Debbie Stoller. Workman Press. ☞
5. **Stinson, C.** (2004) Billie Jean Wrist Band. *Canadian Living Online.*

SELECTED PRESS

1. (July 11, 2025) Interview on *CTV News Winnipeg*.
2. (March 20, 2025) Interview in *Xtra Magazine*. ☞
3. (April 22, 2024) Feature Interview on *The Data Fix*. ☞
4. (May 19, 2023) Interview on *CBC Radio*. ☞
5. (November 23, 2021) Interview on *Power Corrupts*. ☞
6. (July 27, 2021) Player in *Goethe Institut Toronto: The Computer is Your /Redacted/*. ☞
7. (July 6, 2021) Feature Interview on *Brain Inspired*. ☞
8. (March 3, 2021) Feature interview on *Wondros Podcast*. ☞
9. (September 2020) Interview on *CBC Radio: Ontario Morning*.
10. (June 22, 2020) Interview on *ABC Radio: Counterpoint*. ☞
11. (June 12, 2020) Feature Interview in *El Pais: Retina*. ☞
12. (July 4, 2019) Interview in *The Globe and Mail*. ☞
13. (June 26, 2019) Interview on *CBC Radio One: Spark*. ☞
14. (February 12, 2019) Interview on *CJAD Montreal: Natasha Hall Show*.
15. (April 5, 2018) Interview on *CKOM Saskatoon and CJME Regina: Gormley*.
16. (April 3, 2018) Interview in *Christian Science Monitor*. ☞

SELECTED GROUP EXHIBITIONS

- 'The Soft City' City Building, Hart House, Toronto, 2018
- 'The Soft City' Toronto for Everyone, Honest Ed's, Toronto, 2017
- 'The Soft City' Soft City Therapy, Wallace Studios, Toronto, 2017
- 'The Soft City' March Break programming, Art Gallery of Ontario, 2012
- 'The Soft City' Winter City Festival, Toronto City Hall, 2009
- 'The Soft City' Bunch Family Salon, OCAD U, 2009
- 'Dirty Pillows' THREADS, SomArts Gallery, San Francisco, 2009
- 'Tit Purse' THREADS, SomArts Gallery, San Francisco, 2009
- 'Dirty Pillows' The After Party, VIVO, Vancouver, 2008
- 'Tit Purse' The After Party, VIVO, Vancouver, 2008
- 'Dirty Pillows' Gender Alarm!, La Centrale Galerie Powerhouse, Montreal, 2008
- 'Tit Purse' Gender Alarm!, La Centrale Galerie Powerhouse, Montreal, 2008
- 'Corduroy Chrysler Building' NY NY NY, Flux Factory, New York City, 2007
- 'The Soft City' City of Craft, The Theatre Centre, Toronto, 2007
- 'The Soft City' Nuit Blanche, 401 Richmond, Toronto, 2007
- 'The Soft City' Canadian National Exhibition, Toronto, 2006, 2007
- 'The Soft City' Alley Jaunt, Toronto, 2005, 2007
- 'Tit Purse' Storefront: Artist Multiples from the Library Collection, National Gallery of Canada, Ottawa, 2006
- 'The Soft City' The Power Plant Contemporary Art Gallery, Toronto, 2006
- 'The Soft City' Riverdale Art Walk, Toronto Free Gallery, 2006

- 'The Soft City' Doors Open, OCAD U, 2006
- 'The Soft City' Come Up To My Room, The Gladstone Hotel, Toronto, 2006
- 'The Soft City' Making Room, Wallace Studios, Toronto, 2006
- 'The Soft City' Toronto the Good, Fort York, Toronto, 2006
- 'The Soft City' The Centre Cannot Hold, Toronto Free Gallery, 2006
- 'The Soft City' Hotel Canzine (with Mammalian Diving Reflex), The Gladstone Hotel, Toronto, 2005
- 'Trouble' Success/Recovery, Instant Coffee, Toronto, 2004
- 'Tit Purse' Gifts by Artists, Art Metropole, Toronto, 2004
- 'Textile Graffiti' Gobsmacked Festival, Harbourfront Centre, Toronto, 2004
- 'Collective Quilt' Communes Bars and Greenrooms, The Power Plant Contemporary Art Gallery, 2003
- 'Lightning Bikini' projet MOBILIVRE-BOOKMOBILE project Art Auction, 2002

Catalogue
- (2006) 'Tit Purse' *Storefront: Artist Multiples from the Library Collection*, National Gallery of Canada

FILM SCREENINGS

'Failure' (writer, director, actor), Super8, 3:30mins, 2006
- Splice This! Super8 Film Festival, Toronto, 2006

'The Outsiders' (actor, dir. Juli Saragosa), Super8, 6:20mins, 2005
- Tranny Fest, San Francisco, 2008
- Warsaw Lesbian & Gay Film Festival, Warsaw, 2008
- Reeling International Gay & Lesbian Film Festival, Chicago, 2006
- Out on Screen Gay and Lesbian Film Festival, Vancouver, 2006
- Outfest International Gay and Lesbian Film Festival, Los Angeles, 2006
- Cinema Gaylesbico, Milan, June 2006
- London International Lesbian and Gay Film Festival, London, 2006
- Splice This! Super8 Film Festival, Toronto, 2005

'You're Dead After School' (writer, actor, co-dir. Mishann Lau), Super8, 5:30mins, 2003
- Frameline 30 LGBT Film Festival, San Francisco, 2006
- Female Eye Film Festival, Toronto, 2005
- Reel Asian Film Festival, Toronto, 2005
- Ladyfest Film Festival, Ottawa, 2004
- Ladyfest Film Festival, Toronto, 2004
- Splice This! Super8 Film Festival, Toronto, 2003

PRESENTATIONS

Invited Talks (excluding job talks)

Winterizing AI: Critique and Scientific Progress
- **KEYNOTE**: *Montreal AI & Neuroscience Meeting (MAIN)*, Montreal 2026

Eliza's Ghosts: do Mental Health Chatbots work (and for whom)?
- *Canadian Association for the Philosophy of Artificial Intelligence*, online 2026

Chatbots as Psychotherapist Proxies: Possibilities and Limitations
- *Algorithmic Bias in Canada*, University of Toronto Centre for Ethics 2025

Artificial Intelligence Benchmarks and Degenerating Research
- *Schwartz Reisman Institute for Technology and Society Seminar Series*, Toronto 2025
- *Philosophy of AI Network Talks*, online 2025

Background on AI for Artists and Curators
- *Canadian Museum of History*, Gatineau, QC 2025

Preparing for the Future: Ripple Effects of Gen AI (panelist)
- *MaRS Impact AI*, Toronto, ON 2024

What is ChatGPT Made of?
- *Philosophy Lecture Series*, Mount Allison University 2024

Adversarial Perception in Deep Learning Networks
- **KEYNOTE**: *Workshop in Philosophy of Mind and Cognitive Science*, Ruhr-University Bochum 2022
- *FrAIday Seminar*, Umea University 2022
- *Philosophy Department Visiting Speakers Series*, University of Aberdeen 2022
- *Kinds of Intelligence 3*, University of Cambridge ~~2020~~ 2022
- *Philosophy Department Colloquium*, Western University 2022
- *Surveillance Studies Colloquium*, Queen's University 2022

The Artifice of AI Mindreading
- *A Neurotech Future: Ethical, Legal, and Policy Issues*, Queen's University 2021

Algorithms are not Neutral: Bias in Recommender Systems
- *6th World Humanities Forum*, South Korea 2020
- *Microsoft Research*, Montreal 2020
- *Institut für Wissenschaft und Ethik*, University of Bonn 2020

From AI Singularities to Pluralities
- *Symposion zu Singularität*, University of Bonn 2019

Privacy, Stigma, and Autonomy in Mental Health: AI as Help or Hindrance? (panelist)
- *Symposium on Artificial Intelligence & Mental Health*, University of Ottawa 2019

Policy Solutions for Big Data and AI Innovation in Health
- *Ethics and Governance of AI for Health*, Joint Centre for Bioethics, Toronto 2018
- *Technology is not Value Neutral*, Sick Kids Bioethics Symposium, Toronto 2018
- Office of the Information and Privacy Commissioner of Ontario 2018

Frankenstein's Progeny: AI's Culture of Exceptionalism
- *200 Years of Mary Shelley's Frankenstein*, Texas Christian University 2018
- *Reading Frankenstein: Then, Now, Next*, University of Toronto 2018

How Artificial Neurons Tell us about Real Cognition
- *Workshop on Non-Human Cognition*, University of Toronto 2018

The Body in Mental Health
- *Neuroscience and Society Lecture Series*, London ON 2016

Are 'Computational Experiments' Experiments?
- Munich Center for Mathematical Philosophy, University of Munich 2014

Interoception, Eating Disorders, and the Rubber-Hand Illusion
- *Body Perception: Clinical, Experimental, and Philosophical Approaches*, Tübingen 2013

Is Explanation in Psychology Mechanistic?
- *Explaining Mental Phenomena*, University of Tübingen 2012

Epistemology of Computational Modeling in the Social Sciences
- Institute of Social Sciences, University of Kiel 2012

Searching for The Source of Executive Attention
- *Consciousness in a Natural and Cultural Context*, Edinburgh (Essay Award shortlist) 2008

Refereed Conference Talks

Power, Glitch, Body and Algorithm (panelist, with Julian Pivato)
- *Society for the Social Studies of Science*, Toronto 2026

How Technology Mediates Neurodivergent and Trans-Affirming Community Care (with Julian Pivato)
- *Society for the Social Studies of Science*, Seattle 2025

Beyond the Imitation Game: Quantifying and extrapolating the capabilities of language models (poster, with 400+ co-authors)
- *International Conference on Learning Representations* 2025

Chatbots as Psychotherapist Proxies: Possibilities and Limitations
- *Philosophy of Science Association*, New Orleans 2024
- *Canadian Society for History & Philosophy of Science*, Montreal 2024

Artificial Intelligence Benchmarks and Degenerating Research
- *Society for Philosophy of Science in Practice*, Columbia, South Carolina 2024

Understanding Computer Science Students' views of Military (and Military-adjacent) Work (with Mohamed Abdalla, Alicia Cappello*, Sahar Abdalla)
- *Human Rights in AI*, Mila Montreal 2024

A Survey of Canadian University Research Ethics Boards (with Alicia Cappello*)
- *Canadian Association of Research Ethics Boards*, Vancouver 2024

Ethical Development of Imaging Biomarkers for Colorectal Cancer (with Rina Khan*, Vanessa Ferguson*, Amber Simpson)
- *Intelligent Systems for Molecular Biology*, Montreal 2024

Non-Human and Neurodivergent Observers as AI Benchmark Breakers
- *Society for the Social Studies of Science*, Honolulu 2023

Tracking (In)Justice: Documenting Police Use of Force-Involved Deaths in Canada (with Alex McClelland, Andrew Crosby, Rina Khan*)
- *Critical Perspectives: Criminology and Social Justice*, Ottawa 2023
- *Data Justice*, Cardiff 2023

Adversarial Perception in Deep Learning Networks
- *Canadian Society for History & Philosophy of Science*, York University 2023

The Work of Art in the Age of Algorithmic Reproduction (with Brendan Ye*, Ye Shen*, Rina Khan*)
- *Canadian Society for History & Philosophy of Science*, York University 2023

Before and After Pseudoscience: An Empirical Challenge to Social Classification Using Facial Recognition (with Rina Khan*, Sam Baranek*, Georgia Reed*)

- *Surveillance & Society*, Rotterdam 2022

Infiltration, Imposters, or Interdisciplinarity: Philosophers in Computer Science
- *Canadian Philosophical Association* 2022

Revisiting Popularity and Demographic Biases in Recommender Evaluation and Effectiveness (with Nicola Neophytou, Bhaskar Mitra)
- *European Conference on Information Retrieval*, Stavanger, Norway 2022

The Artifice of AI Mindreading
- *History of Science Society & Society for the History of Technology*, New Orleans 2021

Damore you Know: Expertise in AI (with Sofie Vlaad*)
- *Feminism, Social Justice and AI Workshop*, University of Waterloo 2021

When Not to Design, Build, or Deploy (panelist)
- *ACM FAT* 2020*, Barcelona 2020

Can an Algorithm be Biased? (poster)
- *ICML: International Conference on Machine Learning: Queer in AI Workshop* 2020

Abstract Mechanisms and Causal Powers (with Boris Hennig)
- *Canadian Society for History & Philosophy of Science*, Toronto 2017

Mechanistic and Mathematical Explanation Unified
- *Mechanistic Integration and Unification in Cognitive Science*, Warsaw 2016

Grounding Inferences from Model Organisms
- *First Principles in Science: Their Epistemic Status and Justification*, MCMP Munich 2016

The Absent Body in Psychiatric Classification, Diagnosis, and Treatment
- *Canadian Society for History & Philosophy of Science*, Calgary 2016

Computational Models as Experimental Systems
- *Society for Philosophy of Science in Practice*, Toronto 2013

Abstract Models, Generic Mechanisms
- *Models & Mechanisms*, Tilburg 2012

Computational Models as Mechanistic Explanations
- *Models and Simulations 5*, Helsinki 2012
- *Computability in Europe: Turing Centenary Conference*, Cambridge 2012

The Role of Computational Models in Cognitive Neuroscience
- *Epistemology of Modeling and Simulation*, Pittsburgh (Best Student Paper award) 2011
- *European Conference on Computing and Philosophy*, Barcelona 2009

Aristotle's Argument against Functionalism (with Boris Hennig)
- *International Society for History of Philosophy of Science*, Budapest 2010

The Role of Computational Models in Cognitive Neuroscience (poster)
- *Association for the Scientific Study of Consciousness*, Berlin 2009

Attention, Volition, and the Ghost in the Machine
- *European Society for Philosophy and Psychology*, Geneva 2007

Locating Executive Attention: Explanation and Levels of Description (poster)
- *Graduate Conference in Philosophy, Psychology, Neuroscience and Biology*, Edinburgh 2008

How are you People Going to get Things Done if None of you People Ever Participate?
- *National Communication Association*, Boston 2005

On-line Learning from Labeled and Unlabeled Data (poster)
- *NIPS: Workshop on Machine Learning Methods for Text and Images*, Vancouver 2001

TEACHING

Queen's University, Philosophy Department / School of Computing:

- Introduction to Logic — Fall 2024, 2025
- Philosophy in Science Fiction — Fall 2021, 2022, 2023
- Social, Ethical and Legal Issues in Computing — regularly since Winter 2021
- Topics in Philosophy of Science: AI and Mental Health — Winter 2025
- Topics in Philosophy of Science: Modeling Approaches to Social Epistemology — Winter 2023, 2024
- Topics in Philosophy of Science: 3rd Wave AI — Winter 2021, 2022
- Philosophy Directed Study: AI and The Roots of Silicon Valley Ideology — Summer 2025
- Mathematics Independent Study: Misuse of Statistics in AI-powered Phrenology — Winter 2021
- Philosophy Directed Study: Philosophy and Science Fiction — Summer 2021

University of Bonn, Philosophy Department:

- Introduction to the Ethics of Artificial Intelligence — Winter 2019-20, Summer 2020
- Kinds, Ontology, and Classification (graduate seminar) — Summer 2020
- Models and Simulations (graduate seminar) — Winter 2019-20

University of Toronto, Cognitive Science Program:

- Artificial Intelligence in Healthcare (experiential learning) — Spring 2018
- Moral Psychology: Political Disagreement — Spring 2017
- Delusions — Spring 2016

Toronto Metropolitan University (formerly Ryerson), Philosophy Department:

- Critical Thinking, Critical Thinking 1 — Winter 2014

University of Tübingen, Philosophy Department / *Max Planck Institute*, Neuroscience Graduate School:

- Epistemology of Experimentation (co-taught) — Summer 2013
- Mental Architectures (co-taught) — Winter 2012-13

University of Pittsburgh, History & Philosophy of Science Department:

- Causal Reasoning (hybrid online course) — Spring 2009
- Principles of Scientific Reasoning — Fall 2008

Supervision

Queen's University († co-supervision)

- Mishall Lallani, Postdoc, "Community Led Data vs. State Records: A Case Study in Legal Counter Archives" — 2025 – 2027
- Tindur Sigurdarson, PhD, Data Pruning Methods for Fairer AI — Fall 2021 -
- Alicia Cappello, PhD, The Public's Beliefs about AI and Privacy — Fall 2023 -
- Rina Khan, PhD, Auditing Racism in Medical AI — Fall 2023 -
- Pierce Trifonas, PhD, Technology's Role in Shifting Dynamics of Power — Winter 2026 -
- Mason Choi, MA, 2026, "Exploring Alternative Relationships with Technology Through the Glitch"
- Sofie Vlaad, PhD 2026, "Art, Authorship, and Artificial Intelligence"
- Melinda Robinson, MA 2025, "Phenomenology of Neurodiversity: How Neurological Difference Expands Our Understanding of Being Human"
- Veronika Grigoreva†, MSc 2025, "Simple Models, Complex Worlds"
- Emily Medema†, MSc 2024, "Why would the Internet lie to me?: Analyzing the Performance of Misinformation on Twitter utilizing Large Language Models, Machine Learning, and Evolutionary Computing"

- Muhammed Dada, MSc 2024, "On the biases, privacy implications and guardrail viability of Large Language Models"
- William Aitken†, MEng 2024, "Parameter-efficient tuning as a response to corporate capture in Natural Language Processing"
- Malcolm Newton, BSc 2024, "Exploring Mask-Scoring R-CNN and Soft-NMS to Improve Occluded Insect Detection"
- Sam Baranek†, MSc 2023, "Critical Analysis of Statistics and Methodology in Physiognomic AI"
- Annabelle Sauve†, MSc 2023, "Bias, Language, and Medical Data: Guidelines for Ethical Data Repositories and Applications"
- Rina Khan, MSc 2023, "Fairness and Ethical Analysis of Classification Models based on Facial Recognition"
- Vanessa Ferguson, MA 2022, "The (im)precise promise of precision medicine: Sickle Cell Disease, race and artificial intelligence in health care"
- Ernesto Lang Oreamuno, MSc 2022, "Machine Learning Model Stores: A Construct of Software Engineering For Artificial Intelligence"
- James Capone, MA 2021, "On Addressing the Harms Servers Commit"

Wuhan University
- Liming Yang, BSc 2026, "Evaluating LLMs in High-Risk Mental Health Conversations"

University of Cambridge
- Yingzi Zhang, MPhil 2020, "Fake News and Social Epistemology"

University of Bonn
- Ursula Daehne, BA 2020, "Are Women Adult Human Females? – Eine Kritik"

Curriculum Development
- Critical AI Studies, BA and MA program proposal (with Norma Moellers) 2026
- CISC 397: Communication and Ethics for Computing Professionals 2025
- PHIL 472/872: Topics in Philosophy of Artificial Intelligence 2025
- ARIN 201: Ethics and Fairness in AI 2023
- PHIL 206: Philosophy in Science Fiction 2021
- CISC 497 Social, Ethical, and Legal Issues in Computing 2021

PROFESSIONAL SERVICE

Service to Profession

TNBGQ Affinity Group Co-Chair: *Philosophy of Science Association* 2024 – 2026
Conference Area Chair (Philosophy): *FAccT* 2025
EDII Committee Member: *Connected Minds Network* 2023 – 2024
Conference Program Co-Chair: *Canadian Society for History and Philosophy of Science* 2023
Lecture Series Organizer: *Social, Ethical and Legal Issues in Computing*, Queen's University 2022 – 2026
Conference Reviewer: *NeurIPS, Datasets & Benchmarks track* 2022 – 2024
Panel Organizer and Chair: *Ted Chiang: Art, Artifice and AI*, Queen's University 2024
Talk Series Co-Organizer: *Trans Philosophy*, Queen's University 2023
Panel Co-Organizer: *Philosophy and Food Justice*, Queen's University 2023
Conference Program Committee: *FAccT* 2022, 2024
Talk Series Co-Organizer: *Equity in a Pandemic*, Queen's University 2021
Panel Chair: *Coded Bias: Discussion about Bias in AI*, Queen's University 2021
Conference Co-Chair: *The Social Impact of Medicalizing Psychiatry*, Rotman Institute of Philosophy 2017
Workshop Chair: *Body Perception: Clinical, Experimental, and Philosophical Approaches*, Tübingen 2013

Seminar Series Organizer: *Body Perception*, Centre for Integrative Neuroscience, Tübingen 2012 – 2013

Service to University

Affiliated Research Ethics Pool: Queen's University, GREB	2025 – 2028
Generative AI Task Force: Queen's University Faculty Association	2025 – 2026
Operations and University Administration Subcommittee: Queen's University AI Nexus	2025
Graduate Placement Officer: Queen's University, Philosophy Department	2023 – 2026
Hiring Committee, QNS in Responsible use of AI: Queen's University	2021 – 2023
Equity, Diversity and Inclusion Committee: Queen's University, School of Computing	2020 – 2026
Privacy and Ethics Committee: Queen's University, School of Computing	2020 – 2026
Equity Committee: Queen's University, Philosophy Department	2020 – 2023

Reviewer

Synthese, Philosophy of Science, Behavioral and Brain Sciences, British Journal for the Philosophy of Science, Ethics and Information Technology, Philosophy and Technology, IEEE Intelligent Systems, Philosophical Explorations, Theory & Psychology, Routledge Press, Oxford University Press

Professional Memberships

Canadian Society for History & Philosophy of Science, International Philosophy of Medicine Roundtable, Surveillance & Society Network, Society for the Social Studies of Science