

Arvind Raghavan

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EDUCATION

PhD candidate, Computer Science, 2023-present

- Lab: Causal AI Lab ([website](#)), supervised by Elias Bareinboim
- Areas of interest: causal inference, algorithmic fairness, agent foundations, AI safety

M.Sc, Computer Science (Machine Learning), 2023

- Columbia University, City of New York
- GPA: 4.08/4.0
- Courses: RL theory, Computational Learning Theory, Advanced Causal Inference, Applied Causality, Geometric Data Analysis, Deep Learning, Algorithms
- Teaching Assistant: Causal Inference, Advanced Deep Learning, Fair & Robust Algorithms

B. Eng (Honours), Information Engineering & Media, 2013

- Nanyang Technological University, Singapore
- GPA: 4.3/5 (high 2nd upper)
- Concentrations: Computer Science, Human-Centric Design, Linguistics

PUBLICATIONS [[url](#)]

Arvind Raghavan, Inwoo Hwang, "CoBe: Counterfactual Benchmark for Text Editing". *Preprint*, 2026

Arvind Raghavan, Elias Bareinboim. "Causal Identification from Counterfactual Data: Completeness and Bounding Results". In *International Conference on Machine Learning (ICML)*, 2026

Arvind Raghavan, Elias Bareinboim. "Counterfactual Realizability". In *International Conference on Learning Representations (ICLR)*, 2025. (**Spotlight award - top 3.6% by reviewer score**)

Iddo Drori, ..., **Arvind Raghavan**, "A Dataset for Learning University STEM Courses at Scale and Generating Questions at a Human Level". In *AAAI Symposium on Educational Advances in Artificial Intelligence*, 2023

Ivan Nikitovic, ..., **Arvind Raghavan**, Tonio Buonassisi, Armando Solar-Lezama, Iddo Drori. "Text to graphics by program synthesis with error correction on precise, procedural, and simulation tasks". In *CVPR workshop on Generative Models for Computer Vision*, 2023

Vitali Petsiuk, ..., **Arvind Raghavan**, ..., Iddo Drori. "Human Evaluation of Text-to-Image Models on a Multi-Task Benchmark". In *NeurIPS - Workshop on Human Evaluation of Generative Models, 2022* (**Oral Presentation**)

Arvind Raghavan. "Avoiding Calvinist Decision Traps Using Structural Causal Models". In *NeurIPS - Workshop on ML Safety, 2022*

PRIOR RESEARCH EXPERIENCE

Research Assistant | Causal AI Lab, Columbia University **Summer 2022**

- Conducted independent research in decision theory, reinforcement learning and causal inference, supervised by Prof. Elias Bareinboim.
- Proposed a novel framework generalizing Bandit problems to represent multi-agent interactions, proving the optimality of some decision-making criteria over others, and currently working to establish the physical limits of counterfactual experimentation.

RECENT INDUSTRY EXPERIENCE

B2B Finance Manager | Citibank UK **2019 - 2021**

- Structured trade financing solutions for European multinational corporations
- Led data analytics team in Europe, using proprietary Python and SQL libraries on client datasets to identify working capital opportunities and build dynamic pricing models

Big Data Marketing Lead | Citibank Singapore **2017 - 2019**

- Project-managed launch of a recommender system for consumer products, using a collaborative filtering approach with preferences extracted from customer transactions
- Co-led the complex project through design, regulatory approval and monetization phases
- Received Singapore Business Manager Award for role in increasing customer engagement 3x and delivering customer spend increase of 4 – 15% in pilot campaigns

eCommerce Business Development Manager | Citibank Singapore **2017 - 2019**

- Built partnerships with eCommerce giants to grow the bank's API-connectivity and co-brand ventures with the likes of the Alibaba group, Airbnb, Amazon, Expedia, Uber etc.
- Grew Citibank Singapore's eCommerce revenue by 27% year-on-year (target 20%), consistently outperforming rest-of-industry

AWARDS & GRANTS

Open Philanthropy grant (2022) for promising early-career researchers in AI alignment
Singapore Country Business Manager Award (2018) for Recommender System project

LEADERSHIP

Former Board Member, Effective Altruism Singapore

- Redirected over S\$70Mn to more impactful interventions through philanthropic consultancy

Signatory, Giving What We Can Pledge

- Publicly committed to donating at least 10% of income until retirement

Former Secretary, Singapore Interbank LGBTQ+ Forum

- Founded the network for supporting nearly 100,000 members with policy proposals

SKILLS & HOBBIES

- **Programming:** LLM training; Python packages for DL and Probabilistic ML (Pytorch, TF, Pyro); Big Data platforms (Hadoop, Spark)
- **Languages:** Fluent in Tamil, Hindi, Telugu; intermediate proficiency in Mandarin Chinese and French (spoken and written)
- **Translation** of classical poetry from Tamil, Sanskrit, Pali and Classical Chinese
- **Reading:** Sci-fi, history of ideas, non-Western philosophy [[Goodreads](#)]
- **Silent Meditation Retreats:** deeply interested in understanding cognitive science and the mind-body problem from the first-person POV; attend 11-day silent retreats

Last updated - Aug 2026