

Causation

Readings on causation as it applies to data science, and more specifically data science ethics. A primary focus of these readings is causal inference and socially sensitive attributes (e.g., race and gender).

Title	Citation
Causation	Scheines (n.d.)
The Problem of Induction (Stanford Encyclopedia of Philosophy)	Henderson (2022)
The Use and Misuse of Counterfactuals in Ethical Machine Learning	Kasirzadeh & Smart (2021)
Eddie Murphy and the Dangers of Counterfactual Causal Thinking About Detecting Racial Discrimination	Kohler-Hausmann (2017)
What is "Race" in Algorithmic Discrimination on the Basis of Race?	Hu (Forthcoming)

- [Theory of Causation](#)
- [Lost in \(Modal\) Space: Demographic Base-Rate Neglect in the Service of Modal Knowledge](#)
- ["But What Are You Really?" On the Metaphysics of Race](#)
- [Variation Semantics](#)
- [Evaluations of Causal Claims Reflect a Trade-Off Between Informativeness and Compression](#)

References

- Henderson, L. (2022). The Problem of Induction. In E. N. Zalta & U. Nodelman (Eds.), *The Stanford encyclopedia of philosophy* (Winter 2022). <https://plato.stanford.edu/archives/win2022/entries/induction-problem/>; Metaphysics Research Lab, Stanford University.
- Hu, L. (Forthcoming). What's 'race' in algorithmic discrimination on the basis of race? *Journal of Moral Philosophy*.
- Kasirzadeh, A., & Smart, A. (2021). The use and misuse of counterfactuals in ethical machine learning. *Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency*, 228–236. New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3442188.3445886>
- Kohler-Hausmann, I. (2017). The dangers of counterfactual causal thinking about detecting racial discrimination. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3050650>
- Scheines, R. (n.d.). *Causation*.