## **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
The Metaphysics of Causation (Stanford Encyclopedia of Philosophy)	Gallow ( <u>2022</u> )
The Problem of Induction (Stanford Encyclopedia of Philosophy)	Henderson (2022)
Causation	Scheines ( <u>n.d.</u> )
Causal Diagrams for Empirical Research	Pearl ( <u>1995</u> )
Disparate Causes, Pt. I	Hu ( <u>2019</u> )
Variation Semantics: When Counterfactuals in Explanations of Algorithmic Decisions are True	Hudetz & Crawford ( <u>2022</u> )
Causal Discovery Algorithms: A Practical Guide	Malinsky & Danks ( <u>2018</u> )
On the Explanatory Depth and Pragmatic Value of Coarse-Grained, Probabilistic, Causal Explanations	Kinney ( <u>2018</u> )
Fairness in Decision-making — the Causal Explanation Formula	Zhang & Bareinboim ( <u>2018</u> )
Evaluations of Causal Claims Reflect a Trade-Off Between Informativeness and Compression	Kinney & Lombrozo ( <u>2022</u> )
The Use and Misuse of Counterfactuals in Ethical Machine Learning	Kasirzadeh & Smart ( <u>2021</u> )
Eddie Murphy and the Dangers of Counterfactual Causal Thinking About Detecting Racial Discrimination	Kohler-Hausmann ( <u>2017</u> )
"But What Are You <i>Really</i> ?": The Metaphysics of Race	Mills ( <u>1998</u> )
What is "Race" in Algorithmic Discrimination on the Basis of Race?	Hu (Forthcoming)

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- Kinney, D. (2018). On the explanatory depth and pragmatic value of coarse-grained, probabilistic, causal explanations. *Philosophy of Science*, (1), 145–167. https://doi.org/10.1086/701072
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