

# Publications

Dominik Janzing

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## Co-authored book

- [1] J. Peters, D. Janzing, and B. Schölkopf. *Elements of Causal Inference – Foundations and Learning Algorithms*. MIT Press, 2017.

## Articles in peer-reviewed conference proceedings

- [1] Philipp M. Faller, Leena Chennuru Vankadara, Atalanti A. Mastakouri, Francesco Locatello, and Dominik Janzing. Self-compatibility: Evaluating causal discovery without ground truth. *AISTATS*, 2024.
- [2] D. Janzing, P. Blöbaum, A. Mastakouri, P.M. Faller, L. Minorics, and K. Budhathoki. Quantifying indirect causal influence via structure preserving interventions. *AISTATS*, 2024.
- [3] Francesco Montagna, Atalanti A. Mastakouri, Elias Eulig, Nicoletta Noceti, Lorenzo Rosasco, Dominik Janzing, Bryon Aragam, and Francesco Locatello. Assumption violations in causal discovery and the robustness of score matching. *NeurIPS 2023*, 2023.
- [4] Bijan Mazaheri, Atalanti Mastakouri, Dominik Janzing, and Mila Hardt. Causal information splitting: Engineering proxy features for robustness to distribution shifts. In *Proceedings of UAI 2023*, 2023.
- [5] Luigi Gresele, Julius Von Kügelgen, Jonas Kübler, Elke Kirschbaum, Bernhard Schölkopf, and Dominik Janzing. Causal inference through the structural causal marginal problem. In Kamalika Chaudhuri, Stefanie Jegelka, Le Song, Csaba Szepesvari, Gang Niu, and Sivan Sabato, editors, *Proceedings of the 39th International Conference on Machine Learning*, volume 162 of *Proceedings of Machine Learning Research*, pages 7793–7824. PMLR, 17–23 Jul 2022.
- [6] Yonghan Jung, Shiva Kasiviswanathan, Dominik Janzing, Patrick Blöbaum, and Bareinboim Elias. *do*-shapley: Towards causal interpretation of model prediction. In *ICML 2022*.

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- [8] Sergio Hernan Garrido Mejia, Elke Kirschbaum, and Dominik Janzing. Obtaining causal information by merging datasets with maxent. In *Proceedings of the Twenty Fifth International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022.
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- [10] Leena Chennuru Vankadara, Phillip Michael Faller, Lenon Minorics, Debarghya Ghoshdastidar, and Dominik Janzing. Causal forecasting: Generalization bounds for autoregressive models. In *UAI 2022*.
- [11] Osama Makansi, Julius von Kügelgen, Francesco Locatello, Dominik Janzing Peter Gehler, Bernhard Schölkopf, and Thomas Brox. You mostly walk alone: Analyzing feature attribution in trajectory prediction. In *ICLR 2022*, 2022.
- [12] Lenon Minorics, Ali Caner Türkmen, Patrick Bloebaum, David Kerner, Laurent Callot, and Dominik Janzing. Testing for granger non-causality in panels with cross-sectional dependencies. In *Proceedings of the Twenty Fifth International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022.
- [13] Atalanti A Mastakouri, Bernhard Schölkopf, and Dominik Janzing. Necessary and sufficient conditions for causal feature selection in time series with latent common causes. In *International Conference on Machine Learning (ICML)*, pages 7502–7511. PMLR, 2021.
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- [15] K. Budhathoki, D. Janzing, P. Blöbaum, and H. Ng. Why did the distribution change? In *Proceedings of 24th International Conference on Artificial Intelligence and Statistics (AISTATS)*, page to appear. Journal Machine Learning Research (JMLR), 2021.
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## Articles in books

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