

# Drago Plečko

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## Education

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### Bachelor's and Master's in Mathematics

*Queens' College, University of Cambridge*  
*First class honors, Distinction*

2014–2018

### PhD in Statistics

*Department of Mathematics, ETH Zürich*  
*Supervised by Nicolai Meinshausen*

2018–2022

Thesis title:

"From Statistical to Causal Inference in Fair Machine Learning and Intensive Care Medicine".

## Academic Positions

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### Postdoctoral Research Fellow

*Department of Computer Science, Columbia University*  
*Supervised by Elias Bareinboim*

2022–now

## Service

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### Reviewer

*Journal of Machine Learning Research (JMLR)*  
*Journal of American Statistical Association (JASA)*

2021–now

## Teaching

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### Columbia University Lectures

- Spring 2023 – eight-lecture course on Fair Machine Learning within Causal Inference class

### ETH Zürich Course Assistant

- Spring 2022, Spring 2019 – teaching assistant Applied Multivariate Statistics
- Autumn 2020 – teaching assistant Applied Statistical Regression
- Spring 2020 – teaching assistant Computational Statistics
- Autumn 2019 – teaching assistant Statistical Modelling

## Awards

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### International olympiad on Astronomy and Astrophysics (IOAA)

*Bronze Medal*

2013

## List of Publications - Drago Plečko

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- [1] **Drago Plečko** and Elias Bareinboim. Causal fairness analysis. *Foundations and Trends in Machine Learning*, 2024. Forthcoming.
- [2] **Drago Plečko** and Nicolai Meinshausen. Fair data adaptation with quantile preservation. *Journal of Machine Learning Research*, 21:242, 2020.
- [3] **Drago Plečko**, Nicolas Bennett, and Nicolai Meinshausen. fairadapt: Causal reasoning for fair data pre-processing. *Journal of Statistical Software*, 2023.
- [4] **Drago Plečko** and Elias Bareinboim. Causal fairness for outcome control. *Advances in Neural Information Processing Systems (NeurIPS)*, 2023.
- [5] **Drago Plečko** and Elias Bareinboim. A causal framework for decomposing spurious variations. *Advances in Neural Information Processing Systems (NeurIPS)*, 2023.
- [6] **Drago Plečko**, Nicolas Bennett, Johan Mårtensson, and Rinaldo Bellomo. The obesity paradox and hypoglycemia in critically ill patients. *Critical Care*, 25(1):1–15, 2021.
- [7] **Drago Plečko**, Nicolas Bennett, Johan Mårtensson, Tariq Dam, Robert Entjes, Thijs Rettig, Dave Dongelmans, Age Boelens, Sander Rigter, Stefaan Hendriks, Remko Jong, Marlijn Kamps, Marco Peters, Attila Karakus, Diederik Gommers, Dharmanand Ramnarain, Evert-Jan Wils, Sefanja Achterberg, Ralph Nowitzky, and Rinaldo Bellomo. Rapid Evaluation of Coronavirus Illness Severity (RECOILS) in Intensive Care: Development and Validation of a Prognostic Tool for In-Hospital Mortality. *Acta Anaesthesiologica Scandinavica*, 0(0):1–11, 10 2021.
- [8] Nicolas Bennett\*, **Drago Plečko**\*, Ida-Fong Ukor, Nicolai Meinshausen, and Peter Bühlmann. ricu: R’s interface to intensive care data. *GigaScience*, 12:gjad041, 2023.
- [9] Michael Moor\*, Nicolas Bennett\*, **Drago Plečko**\*, Max Horn\*, Bastian Rieck, Nicolai Meinshausen, Peter Bühlmann, and Karsten Borgwardt. Predicting sepsis using deep learning across international sites: a retrospective development and validation study. *The Lancet eClinical Medicine*, 62:102124, 2023.
- [10] **Drago Plečko** and Elias Bareinboim. Reconciling predictive and statistical parity: A causal approach. *arXiv preprint arXiv:2306.05059*, 2023. *Under review in 38th AAAI Conference on Artificial Intelligence*.

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\* denotes equal contribution authorship.