

Curriculum Vitae

Personal Information

NAME, SURNAME: Ričards Marcinkevičs
DATE OF BIRTH: 28.12.1995
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NATIONALITY: Latvian



Education

- 2019- Ph.D. student, **Department of Computer Science, Institute for Machine Learning, ETH Zürich**, supervised by Prof. Dr. [Julia E. Vogt](#), co-advised by Prof. Dr. [Fanny Yang](#)
- 2017-2019 M.Sc. ETH in Statistics, with distinction, **Department of Mathematics, ETH Zürich**. Master thesis: “*Causal Inference in Time Series for Identifying Molecular Fingerprints during Sleep*”, supervised by Prof. Dr. [Joachim M. Buhmann](#), advised by [Đorđe Miladinović](#)
- 2014-2017 B.Sc. in Data Science and Knowledge Engineering, summa cum laude, **Department of Data Science and Knowledge Engineering, Maastricht University**
- 2009-2014 **Rīga Secondary School 34**, General Certificate of Secondary Education
- 2002-2009 **Rīga Secondary School 95**

Publications & Preprints

Manduchi, L.,[†] **Marcinkevičs, R.**,[†] Massi, M.C., Weikert, T., Sauter, A., Gotta, V., Müller, T., Vasella, F., Neidert, M.C., Pfister, M., Stieltjes, B., Vogt, J.E. (2022) [A Deep Variational Approach to Clustering Survival Data](#). *10th International Conference on Learning Representations, ICLR 2022*.

Roig Aparicio, P., **Marcinkevičs, R.**, Reis Wolfertstetter, P., Wellmann, S., Knorr, C., Vogt, J.E. (2021) [Learning Medical Risk Scores for Pediatric Appendicitis](#). *Short paper at 20th IEEE International Conference on Machine Learning and Applications, ICMLA 2021*

Nowak, N., Gaisl, T., Miladinovic, D., **Marcinkevičs, R.**, Osswald, M., Bauer, S., Buhmann, J.M., Zenobi, R., Sinues, P., Brown, S.A., Kohler, M. (2021) [Rapid and reversible control of human metabolism by individual sleep states](#). *Cell Reports*.

Hatteland, A.H.,[†] **Marcinkevičs, R.**,[†] Marquis, R., Frick, T., Hubbard, I., Vogt, J.E., Brunschwiler, T., Ryvlin, P. (2021) [Exploring Relationships between Cerebral and Peripheral Biosignals with Neural Networks](#). *Best paper award at IEEE International Conference on Digital Health, ICDH 2021*.

Marcinkevičs, R.,[†] Reis Wolfertstetter, P.,[†] Wellmann, S., Knorr, C., Vogt, J.E. (2021) [Using machine learning to predict the diagnosis, management and severity of pediatric appendicitis](#). *Frontiers in Pediatrics*.

Marcinkevičs, R. and Vogt, J.E. (2021) [Interpretable Models for Granger Causality Using Self-explaining Neural Networks](#). *9th International Conference on Learning Representations, ICLR 2021*.

Marcinkevičs, R. and Vogt, J.E. (2020) [Interpretability and Explainability: A Machine Learning Zoo Mini-tour](#). *arXiv: 2012.01805*.

Daunhawer, I., Sutter, T.M., **Marcinkevičs, R.**, Vogt, J.E. (2020) [Self-supervised Disentanglement of Modality-specific and Shared Factors Improves Multimodal Generative Models](#). *42nd DAGM German Conference on Pattern Recognition, DAGM GCPR 2020*.

[†]equal contribution

Talks

[Debiasing Neural Networks using Differentiable Classification Parity Proxies](#) (April 2022) *ICLR 2022 Workshop on Socially Responsible Machine Learning*.

Deep Variational Approaches for Weakly Supervised Clustering with Applications to Survival Data (November 2021) *Research seminar of the TU Wien Machine Learning Research Unit*.

[Machine Learning Basics for Physicians](#) (November 2021) *Barmherzige Brüder Regensburg Hospital journal club*.

[A Deep Variational Approach to Clustering Survival Data](#) (March & May 2021) *AI for Public Health Workshop at ICLR 2021 and IBM Research Zürich machine learning seminar*.

Interpretable Models for Granger Causality Using Self-explaining Neural Networks (November 2020) *ETH Zürich Doctoral Machine Learning Seminar*.

Reviewing

Conferences	ICML 2022; NeurIPS 2022
Journals	iScience (<i>Cell Press</i>); International Journal of Computer Vision (<i>Springer</i>)
Workshops	Workshop on Computational Biology (ICML 2022); Bridging the Gap: From Machine Learning Research to Clinical Practice (NeurIPS 2021)

Work Experience

2019-	Research assistant at the Department of Computer Science, Institute for Machine Learning, ETH ZÜRICH
2015-2017	Intern at MEDTRONIC Bakken Research Center, Maastricht <i>Signal processing and analysis</i>

Teaching Experience

2021, 2022	TA for Data Science for Medicine 252-0868-00L
2020, 2021	TA for Advanced Machine Learning 252-0535-00L
2020	TA for Digital Medicine II 252-0868-00L

Languages

Latvian (native), Russian (native), English (professional), German (limited working)

Programming & Software Skills

Basic	C++, mySQL, GLPK, OpenMP, Open MPI, Adobe Photoshop
Intermediate	C#, L ^A T _E X, OpenCV, TensorFlow
Advanced	python, PyTorch, Java, R, MATLAB, MS Office

Interests and Activities

Recreational Mathematics, History, Literature, Philosophy, Angling, Swimming