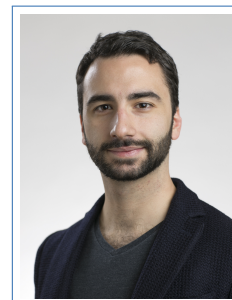


Dorđe Miladinović

Curriculum Vitæ

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Education

- Sep 2017- **PhD in Artificial Intelligence**, *ETH Zurich, Department of Computer Science.*
Supervision: Prof. Dr. Joachim M. Buhmann
Topics: Deep Generative Models; Representation Learning; EEG Sleep Analysis; Granger Causality;
- 2013-2016 **Master's Degree**, *ETH Zurich, Department of Computer Science.*
- 2009-2013 **Bachelor's Degree**, *University of Belgrade Faculty of Electrical Engineering.*

Professional Experience

- Autumn 2018 **Max Planck Institute for Intelligent Systems**, *Research stay.*
Topic: Learning causal disentangled representations.
- Spring 2017 **ETH Zurich, Department of Computer Science**, *Research assistantship.*
Topic: Deep learning for EEG sleep classification; see <https://sleeplearning.ethz.ch/>.
- Aut/Win 2016 **Logitech Europe S.A. Data Science & Advanced Analytics**, *Internship.*
Topic: Mining and predicting behavioral patterns from user log data.
- Spr/Sum 2016 **Disney Research Zurich, Vision and Sensing Research Group**, *Master's thesis.*
Topic: Metric learning for comparing robot to human motion activity.

Computer Skills

- | | |
|----------------|---|
| Proficient in | Python, PyTorch, Latex |
| Intermediate | C, C++, Matlab, Java |
| Experienced in | Hadoop, SQL, C#, Javascript, NodeJS, HTML, CSS, Ruby on Rails |
| Environments | Linux, Microsoft Windows |
| Tools | MS Office, Git |

Languages

- | | |
|----------------|-------------------------------|
| Serbo-Croatian | Native |
| English | Full professional proficiency |
| German | B1 Level |
| Spanish | Beginner |

Academic Activities

- Autumn 2019 **NeurIPS 2019, Disentanglement Challenge**, *Co-organizer; <https://bit.ly/36bTD4W>.*
- 2017-2019 **Reviewer at NeurIPS, ICML, ICLR.**

Publications

- [1] **Đorđe Miladinović**, Aleksandar Stanić, Stefan Bauer, Jürgen Schmidhuber, and Joachim Buhmann M. Spatial dependency networks: Neural layers for improved generative image modeling. In *International Conference on Learning Representations*, 2021.
- [2] Muhammad Waleed Gondal, Manuel Wuthrich, **Đorđe Miladinović**, Francesco Locatello, Martin Breidt, Valentin Volchkov, Joel Akpo, Olivier Bachem, Bernhard Schölkopf, and Stefan Bauer. On the transfer of inductive bias from simulation to the real world: a new disentanglement dataset. In *Advances in Neural Information Processing Systems*, pages 15740–15751, 2019.
- [3] **Đorđe Miladinović**, Muhammad Waleed Gondal, Bernhard Schölkopf, Joachim M Buhmann, and Stefan Bauer. Disentangled state space representations. *arXiv preprint arXiv:1906.03255*, 2019.
- [4] Raphael Suter, **Đorđe Miladinović**, Bernhard Schölkopf, and Stefan Bauer. Robustly disentangled causal mechanisms: Validating deep representations for interventional robustness. In *International Conference on Machine Learning*, pages 6056–6065. PMLR, 2019.
- [5] **Đorđe Miladinović**, Christine Muheim, Stefan Bauer, Andrea Spinnler, Daniela Noain, Mojtaba Bandarabadi, Benjamin Gallusser, Gabriel Krummenacher, Christian Baumann, Antoine Adamantidis, et al. Spindle: End-to-end learning from eeg/emg to extrapolate animal sleep scoring across experimental settings, labs and species. *PLoS computational biology*, 15(4):e1006968, 2019.
- [6] Patrick Schwab, **Đorđe Miladinović**, and Walter Karlen. Granger-causal attentive mixtures of experts: Learning important features with neural networks. In *Proceedings of the AAAI Conference on Artificial Intelligence*, volume 33, pages 4846–4853, 2019.
- [7] Stefan Bauer, Nico S Gorbach, **Đorđe Miladinović**, and Joachim M Buhmann. Efficient and flexible inference for stochastic systems. In *Advances in Neural Information Processing Systems*, pages 6988–6998, 2017.