

Accepted papers at NeurIPS 2021 from within Cyber Valley ecosystem

1. [A flow-based latent state generative model of neural population responses to natural images](#)
Mohammad Bashiri · Edgar Walker · Konstantin-Klemens Lurz · Akshay Jagadish · Taliah Muhammad · Zhiwei Ding · Zhuokun Ding · Andreas Tolias · Fabian Sinz
2. [A Probabilistic State Space Model for Joint Inference from Differential Equations and Data](#)
Jonathan Schmidt · Nicholas Krämer · Philipp Hennig
3. [Adaptive Diffusion in Graph Neural Networks](#)
Jialin Zhao · Yuxiao Dong · Ming Ding · Evgeny Kharlamov · Jie Tang
4. [An Infinite-Feature Extension for Bayesian ReLU Nets That Fixes Their Asymptotic Overconfidence](#)
Agustinus Kristiadi · Matthias Hein · Philipp Hennig
5. [Analytic Insights into Structure and Rank of Neural Network Hessian Maps](#)
Sidak Pal Singh · Gregor Bachmann · Thomas Hofmann
6. [ATISS: Autoregressive Transformers for Indoor Scene Synthesis](#)
Despoina Paschalidou · Amlan Kar · Masha Shugrina · Karsten Kreis · Andreas Geiger · Sanja Fidler
7. [Backward-Compatible Prediction Updates: A Probabilistic Approach](#)
Frederik Träuble · Julius von Kügelgen · Matthäus Kleindessner · Francesco Locatello · Bernhard Schölkopf · Peter Gehler
8. [Causal Influence Detection for Improving Efficiency in Reinforcement Learning](#)
Maximilian Seitzer · Bernhard Schölkopf · Georg Martius
9. [Characterizing Generalization under Out-Of-Distribution Shifts in Deep Metric Learning](#)
Timo Milbich · Karsten Roth · Samarth Sinha · Ludwig Schmidt · Marzyeh Ghassemi · Bjorn Ommer
10. [Cockpit: A Practical Debugging Tool for the Training of Deep Neural Networks](#)
Frank Schneider · Felix Dangel · Philipp Hennig
11. [DiBS: Differentiable Bayesian Structure Learning](#)
Lars Lorch · Jonas Rothfuss · Bernhard Schölkopf · Andreas Krause
12. [Dynamic Inference with Neural Interpreters](#)
Nasim None Rahaman · Muhammad Waleed Gondal · Shruti Joshi · Peter Gehler · Yoshua Bengio · Francesco Locatello · Bernhard Schölkopf

13. [Fast Minimum-norm Adversarial Attacks through Adaptive Norm Constraints](#)
Maura Pintor · Fabio Roli · Wieland Brendel · Battista Biggio
14. [Fine-Grained Zero-Shot Learning with DNA as Side Information](#)
Sarkhan Badirli · Zeynep Akata · George Mohler · Christine Picard · Murat M Dondar
15. [Hierarchical Reinforcement Learning with Timed Subgoals](#)
Nico Gürtler · Dieter Büchler · Georg Martius
16. [How Powerful are Performance Predictors in Neural Architecture Search?](#)
Colin White · Arber Zela · Binxin Ru · Yang Liu · Frank Hutter
17. [How Well do Feature Visualizations Support Causal Understanding of CNN Activations?](#)
Roland S. Zimmermann · Judy Borowski · Robert Geirhos · Matthias Bethge · Thomas Wallis · Wieland Brendel
18. [HPOBench: A Collection of Reproducible Multi-Fidelity Benchmark Problems for HPO](#)
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19. [Independent mechanism analysis - a new concept?](#)
Luigi Gresele · Julius von Kügelgen · Vincent Stimper · Bernhard Schölkopf · Michel Besserve
20. [Iterative Teaching by Label Synthesis](#)
Weiyang Liu · Zhen Liu · Hanchen Wang · Liam Paull · Bernhard Schölkopf · Adrian Weller
21. [Laplace Redux - Effortless Bayesian Deep Learning](#)
Erik Daxberger · Agustinus Kristiadi · Alex Immer · Runa Eschenhagen · Matthias Bauer · Philipp Hennig
22. [Learning Theory Can \(Sometimes\) Explain Generalisation in Graph Neural Networks](#)
Pascal Esser · Leena Chennuru Vankadara · Debarghya Ghoshdastida
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Sarah Müller · Alexander von Rohr · Sebastian Trimpe
26. [Locality Sensitive Teaching](#)
Zhaozhuo Xu · Beidi Chen · Chaojian Li · Weiyang Liu · Le Song · Yingyan Lin · ANSHUMALI Shrivastava

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28. [MetaAvatar: Learning Animatable Clothed Human Models from Few Depth Images](#)
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Amrutha Saseendran · Kathrin Skubch · Stefan Falkner · Margret Keuper
44. [Sparsely Changing Latent States for Prediction and Planning in Partially Observable Domains](#)
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