



*Problems*, ICML 2023 (**Outstanding paper in Sampling and Optimization in Discrete Space (SODS) Workshop**)[\[link\]](#) [\[code\]](#) [\[Slides\]](#)

[4] Yuandong Tian, Jerry Ma\*, Qucheng Gong\*, Shubho Sengupta\*, Zhuoyuan Chen, James Pinkerton, Larry Zitnick, *ELF OpenGo: An Analysis and Open Reimplementation of AlphaZero*, ICML 2019 (**Long Oral**)[\[link\]](#) [\[code\]](#) [\[website\]](#) [\[pretrained model and game records\]](#) [\[Blogpost\]](#) [\[Talk\]](#) [\[Forbes\]](#) [\[TechCrunch\]](#) [\[reddit\]](#)

[5] Xinyun Chen, Yuandong Tian, *Learning to Perform Local Rewriting for Combinatorial Optimization*, NeurIPS 2019 [\[link\]](#) [\[code\]](#)

[6] Yuandong Tian, Yan Zhu, *Better Computer Go Player with Neural Network and Long-term Prediction*, ICLR 2016 [\[link\]](#) [\[code\]](#) [\[pretrained model\]](#) [\[mit tech review\]](#) [\[wired\]](#)

## LARGE LANGUAGE MODELS (LLMS)

[1] Zechun Liu, Changsheng Zhao, Forrest Iandola, Chen Lai, Yuandong Tian, Igor Fedorov, Yunyang Xiong, Ernie Chang, Yangyang Shi, Raghuraman Krishnamoorthi, Liangzhen Lai, Vikas Chandra, *MobileLLM: Optimizing Sub-billion Parameter Language Models for On-Device Use Cases*, ICML 2024 [\[link\]](#)

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[3] Kevin Yang, Dan Klein, Asli Celikyilmaz, Nanyun Peng, Yuandong Tian, *RLCD: Reinforcement Learning from Contrast Distillation for Language Model Alignment*, ICLR 2024 [\[link\]](#) [\[code\]](#)

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[6] Hanlin Zhu\*, Andrew Cohen\*, Danqing Wang, Kevin Yang, Xiaomeng Yang, Jiantao Jiao, Yuandong Tian, *End-to-end Story Plot Generator*, arXiv 2023 [\[link\]](#)

[7] Danqing Wang, Kevin Yang, Hanlin Zhu, Xiaomeng Yang, Andrew Cohen, Lei Li, Yuandong Tian, *Learning Personalized Story Evaluation*, arXiv 2023 [\[link\]](#) [\[code\]](#)

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[1] Randall Balestriero, Mark Ibrahim, Vlad Sobal, Ari Morcos, Shashank Shekhar, Tom Goldstein, Florian Bordes, Adrien Bardes, Gregoire Mialon, Yuandong Tian, Avi Schwarzschild, Andrew Gordon Wilson, Jonas Geiping, Quentin Garrido, Pierre Fernandez, Amir Bar, Hamed Pirsiavash, Yann LeCun, Micah Goldblum, *A Cookbook of Self-Supervised Learning*, arXiv 2023 [\[link\]](#)

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- [16] Simon S. Du, Jason D. Lee, Yuandong Tian, Barnabas Poczos, Aarti Singh, *Gradient Descent Learns One-hidden-layer CNN: Don't be Afraid of Spurious Local Minima*, ICML 2018 (**Long Oral**)[\[link\]](#)
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- [18] Yuandong Tian, *An Analytical Formula of Population Gradient for two-layered ReLU network and its Applications in Convergence and Critical Point Analysis*, ICML 2017 [\[link\]](#) [\[code\]](#)

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- [2] Anselm Paulus\*, Arman Zharmagambetov\*, Chuan Guo, Brandon Amos\*\*, Yuandong Tian\*\*, *AdvPrompter: Fast Adaptive Adversarial Prompting for LLMs*, arXiv 2024 [\[link\]](#)
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- [11] Kevin Yang\*, Tianjun Zhang\*, Chris Cummins, Brandon Cui, Benoit Steiner, Linnan Wang, Joseph E. Gonzalez, Dan Klein, Yuandong Tian, *Learning Space Partitions for Path Planning*, NeurIPS 2021 [\[link\]](#) [\[code\]](#)
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- [9] Cheng Fu, Hanxian Huang, Xinyun Chen, **Yuandong Tian**, Jishen Zhao (UCSD), *Learn-to-Share: A Hardware-friendly Transfer Learning Framework Exploiting Computation and Parameter Sharing*, ICML 2021 (**Long Oral**)[[link](#)]
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