

Stanford

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Ph.D. Student in Electrical Engineering, admitted Autumn 2018

Bio

LINKS

- Personal Website: <https://web.stanford.edu/~ergen/>

Publications

PUBLICATIONS

- **Global Optimality Beyond Two Layers: Training Deep ReLU Networks via Convex Programs**
Ergen, T., Pilanci, M., Meila, M., Zhang, T.
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- **Convex Geometry and Duality of Over-parameterized Neural Networks** *JOURNAL OF MACHINE LEARNING RESEARCH*
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- **Revealing the Structure of Deep Neural Networks via Convex Duality**
Ergen, T., Pilanci, M., Meila, M., Zhang, T.
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- **Convex Geometry of Two-Layer ReLU Networks: Implicit Autoencoding and Interpretable Models**
Ergen, T., Pilanci, M., Chiappa, S., Calandra, R.
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- **Neural Networks are Convex Regularizers: Exact Polynomial-time Convex Optimization Formulations for Two-Layer Networks**
Pilanci, M., Ergen, T.
International Conference on Machine Learning (ICML), 2020.
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- **CONVEX NEURAL AUTOREGRESSIVE MODELS: TOWARDS TRACTABLE, EXPRESSIVE, AND THEORETICALLY-BACKED MODELS FOR SEQUENTIAL FORECASTING AND GENERATION**
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- **Energy-Efficient LSTM Networks for Online Learning** *IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS*
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- **Unsupervised Anomaly Detection With LSTM Neural Networks** *IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS*
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- **Online Training of LSTM Networks in Distributed Systems for Variable Length Data Sequences** *IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS*
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2018; 29 (10): 5159–65
- **Efficient Online Learning Algorithms Based on LSTM Neural Networks** *IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS*
Ergen, T., Kozat, S.
2018; 29 (8): 3772–83