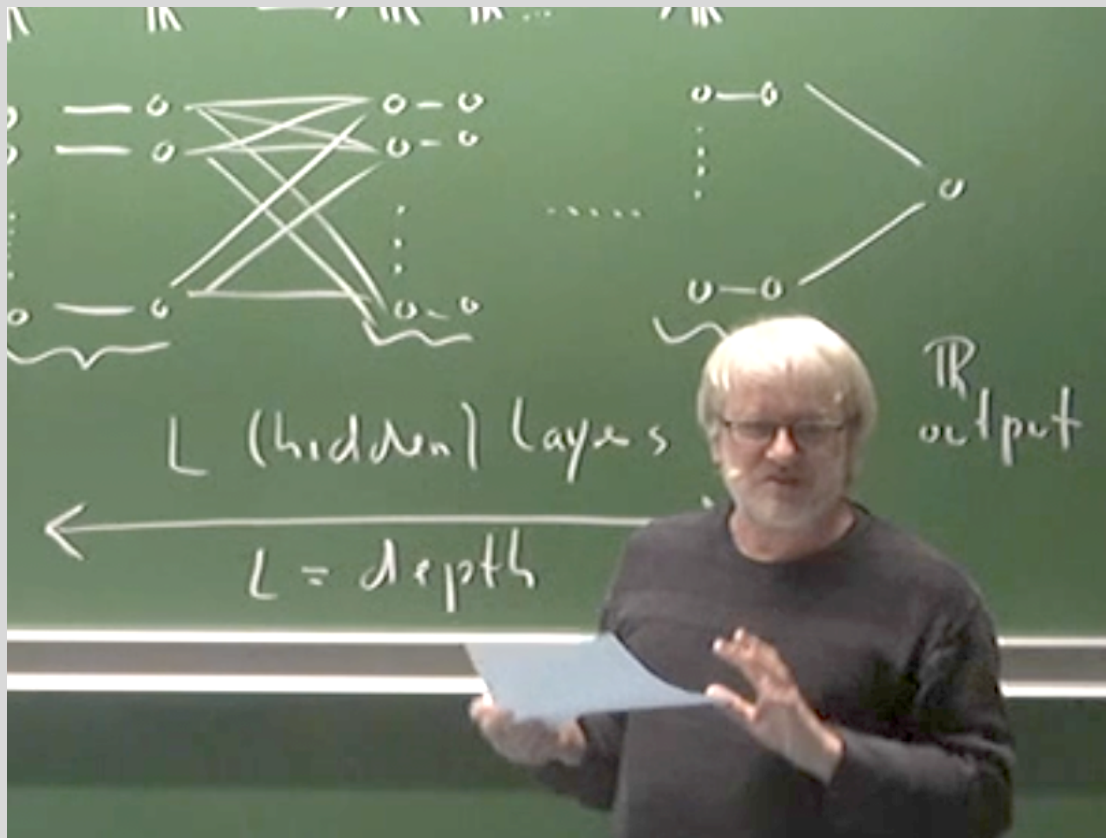


Lecture Series by Roland Speicher
Saarland University

High Dimensional Analysis

Random Matrices and Machine Learning



- Volumes in High Dimensions
- Linear and Non-Linear Concentration
- Wishart Random Matrices
- Signal + Noise Models
- Double Descent and Linear Regression
- Non-Linear Random Matrix Models
- Gradient Descent and Neural Tangent Kernel
- Free Probability Theory