

## ML Problems

High-dimensional inference  
Curse-of-dimensionality

## Approximation theory

Interpolants  
Error bounds

## Algorithms & Complexity

Space/time efficient algorithms  
Theorems of convergence  
Big-Oh analysis

## Applications

Empirical accuracy  
Application of error bounds  
Working into pipelines

## Software

Robust implementations  
Handling degeneracies

## Scalability

Large-scale linear  
programming

## Usability

Differentiable  
optimization

## Flexibility

Arbitrary distance  
metric