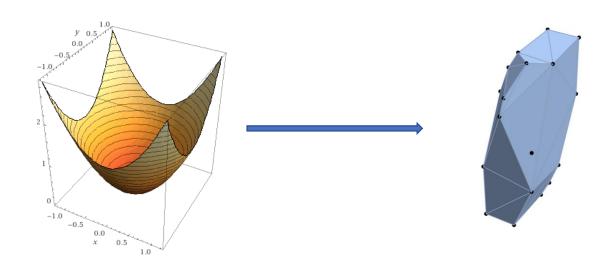
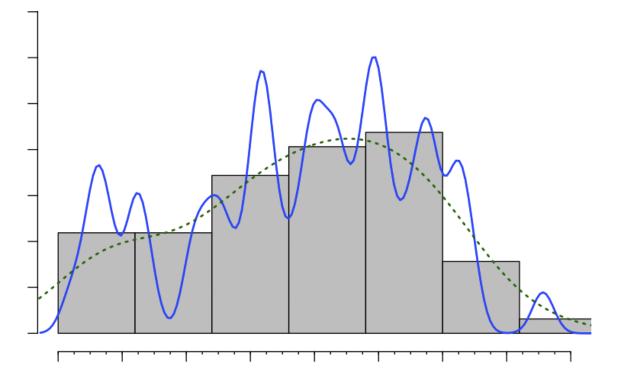
1. Optimising of ML Algorithms

- Can we pose a convex optimisation problem in ML using known quantum techniques?
- If not, can we construct new techniques?



2. Sampling from Probability Distribution

- Simultaneous Localisation and Mapping approximates distribution which one cannot take samples from
- Can we improve the sampling accuracy using quantum computing?



3. Training Neural Networks

 Can we efficiently train basic neural networks (MLP) with quantum computing? Previous attempts have failed to prove a quantum advantage [1]

