Lecture 23: Bayesian global optimization

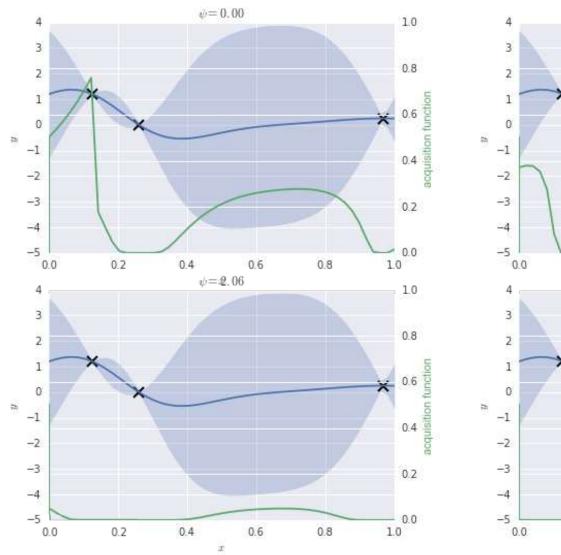
Professor Ilias Bilionis

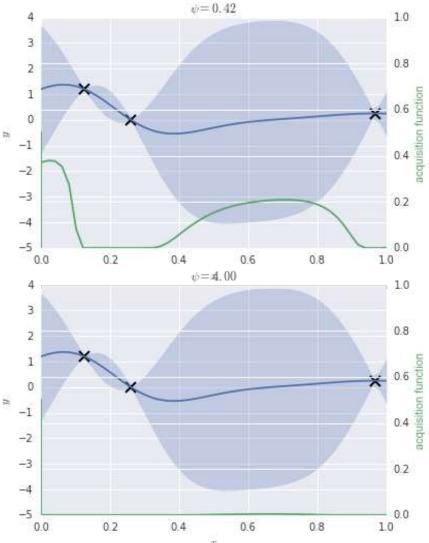
Probability of improvement - No observation noise



Derivation of the probability of improvement

Probability of Improvement







Probability of Improvement - Why not use it?

- Large value of ψ -> exploration.
- Small value of ψ -> exploitation.
- But how to you pick it?

