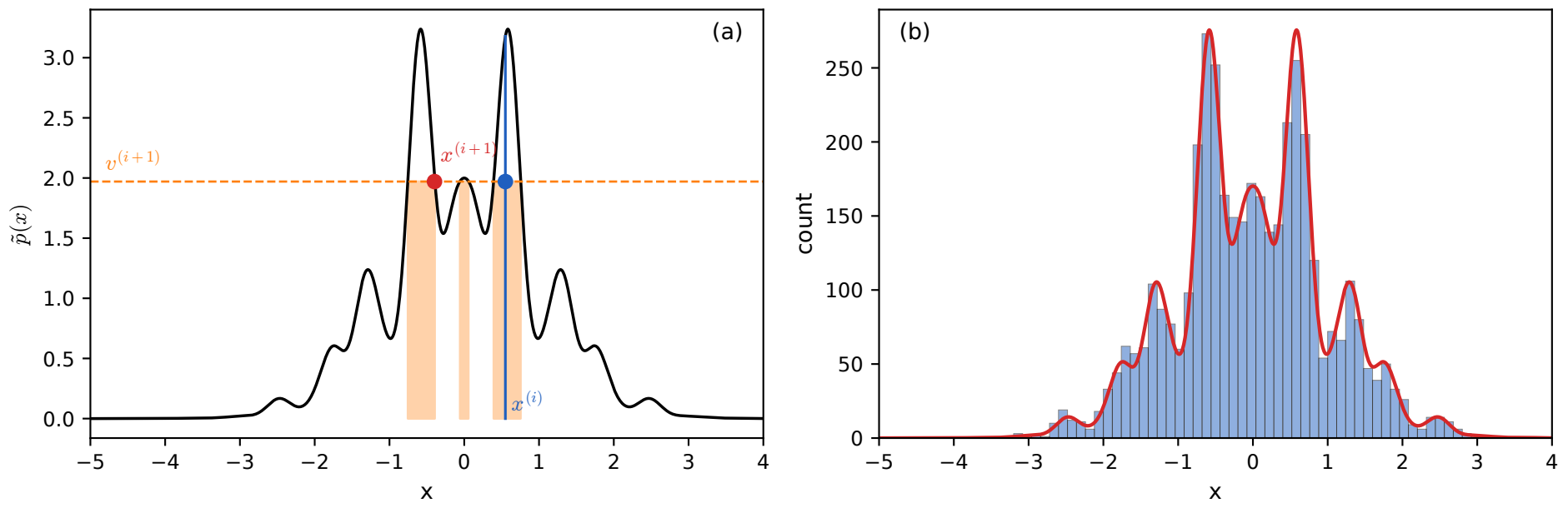

(a)
$\tilde{p}(x)$
$v^{(i+1)}$
$x^{(i+1)}$
$x^{(i)}$
x
(b)
count
x