x (2(8/2))(x'x) | dy (1- x (5,x)) x $\int dx' \ \rho(x',x) = \int = \int dx' \ \alpha(x',x) \ \Omega(x',x) \ + \int dy \ \Omega(y|x)$ / Conedien where $\alpha(x',x) = \min(1, \frac{\rho(x')}{\rho(x)} \frac{Q(x|x')}{Q(x'|x)}$ - Pdy cx (eg x) Q(y)x) dist on this. of new point, rivi $\rho(x',x) = \alpha(x',x) Q(x'|x)$ P(x'|x) = P(x',x)careat point (known) Metropolis- Mastings hech

compare Ati & Rojedin Scapling.

Both require us to Jours proposal Q.

If we have ind Q, alguith extremely show.

The alyonithmic may to cheese a good Q

Special case

 $\alpha(xx)=$ $\frac{\rho(x)}{\rho(x)}\frac{\rho(x)}{\rho(x)}$

choose Q s.t. Q(x/y) = Q(y/x)

 $\Rightarrow \alpha (q,x) = \frac{1}{p(x)} = \frac{p(y)}{p(x)}$

need ip(z) ~ P(x)

symplice proposal.

Medicophies alyorithm.

Score Llenge (1 Kir propesal dono