$$f(\theta|X_{1},x_{1},...,X_{n},x_{n}) \propto f(x_{1},...,x_{n}|\Theta=\theta)f(\theta)$$

$$=(f(x_{1},...,x_{n}|\Theta=\theta)f(\theta))$$

$$=(f(x_{1},...,x_{n}|\Theta=\theta)f(\theta))$$

$$=(f(x_{1},...,x_{n}|\Theta=\theta)f(\theta))$$

.

$$1 = \int_{-\infty}^{\infty} f(\theta \mid \hat{X} = \hat{x}) = c \int_{-\infty}^{\infty} f(\hat{x} \mid \hat{\omega} = \hat{b}) f(\hat{a}) d\theta$$

$$= \int_{-\infty}^{\infty} f(\vec{x}|\vec{w}=\theta) + f(\theta) d\theta$$

Approxime Bayes . - Given prior $f(\theta)$ - sample (D1, H2,..., Dx from prin - for each i=1,2,...,k - Sample duta X, ..., X, ~- (\$10=0i) - decide if X' représents your don X -if yes, same p -if no, discord p - look at distribution of saved p.