Modelo Prior

$$T\left(\mu_{1}\sigma^{2} \mid \overline{z}_{1}, ..., \overline{z}_{n}\right) \times T \times \left(\overline{z}_{i} \mid \mu_{i}, \sigma^{2}\right) \cdot \left(\frac{1}{\sigma}\right)$$

$$\times T \cdot \left(2\pi \sigma^{2}\right)^{1/2} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \left(\overline{z}_{i} - \mu\right)^{2}\right\} \cdot \left(\frac{1}{\sigma}\right)$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \sum_{i=1}^{2} \left(\overline{z}_{i} - \mu\right)^{2}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \sum_{i=1}^{2} \left(\overline{z}_{i} - \overline{z}\right)^{2} - 2(\overline{z}_{i} - \overline{z})(\overline{z} - \mu) + (\overline{z} - \mu)^{2}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \sum_{i=1}^{2} \left(\overline{z}_{i} - \overline{z}\right)^{2} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \sum_{i=1}^{2} \left(\overline{z}_{i} - \mu\right)^{2}\right\}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} \cdot \left(\overline{z}_{i} - \overline{z}\right)^{2}\right\} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} \cdot \left(\overline{z}_{i} - \mu\right)^{2}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)} \cdot \exp\left\{\left(\frac{1}{\sigma^{2}}\right) \cdot \left(\frac{1}{2} \cdot \frac{1}{2} \cdot \overline{z}\right)^{2} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} - \overline{z}) \cdot \overline{z}\right\}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} - \overline{z}_{i}) - \overline{z} \cdot \overline{z}\right\}\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i} - \mu\right) + 2\overline{z} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z}^{2} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z}^{2} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \exp\left\{-\frac{1}{2\sigma^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z}^{2} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}{2} + \frac{1}{2}\right)^{2}} \cdot \left(\overline{z}_{i} - \mu\right)^{2} - 2(\overline{z}_{i} \cdot \overline{z}_{i}) - \overline{z}^{2} \cdot \left(\overline{z}_{i} - \mu\right)\right\}$$

$$\times \left(\sigma^{2}\right)^{-\left(\frac{1}$$

el kernel:	ura generar
$\frac{1}{20^2} \sum_{i=1}^{n} \left[-2(z_i - \overline{z}) \right]$	
$\frac{1}{202}\left(-2\right)\sum_{i=1}^{n}\left(\overline{z}_{i}-\overline{z}\right)$	
$\left \frac{1}{0^2}\sum_{i=1}^n\left(\overline{z}_i-\overline{z}\right)\right $	
======================================	
o se descompone en 2 ele	mendos?
	5.
$\mu l \sigma^2 N N (m_1) S_1)$. =