

## CONDITIONAL DENSITIES

## Why

## Definition

conditional density

## Notation

Let  $f: \mathbb{R}^d \to \mathbb{R}$  a density. For  $i, j = 1, \dots, d$  and  $i \neq j$ , let  $f_{i|j}: \mathbb{R}^2 \to \mathbb{R}$  satisfy

$$f_{ij}(\xi, \gamma) = f_{i|j}(\xi, \gamma) f_j(\gamma)$$

for  $\xi, \gamma \in \mathbf{R}$ .

