

## Conditional Densities

- 1 Why
- 2 Definition
- 3 Notation

Let  $f: \mathbb{R}^d \to \mathbb{R}$  a density. For  $i, j=1,\ldots,d$  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  $\xi, \gamma \in \mathbf{R}$ .