

# On one side of Philosophy of Statistics

Andrey Pepelyshev



The  
University  
Of  
Sheffield.

*"Always expect the unexpected"*  
Driving recommendation

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# Main question in statistics

- Let we have two samples

$$x_1, x_2, \dots, x_n$$

$$y_1, y_2, \dots, y_n$$

where  $x_i, y_i \in \mathbb{R}$

- Let  $\rho = 0.6$



# Main question in statistics

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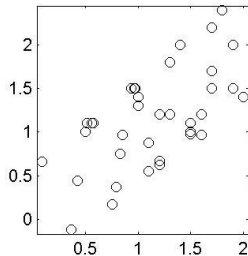
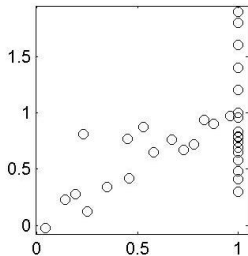
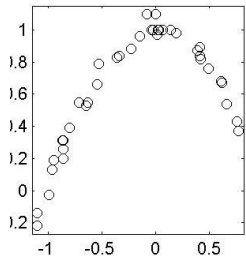
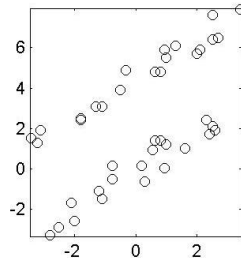
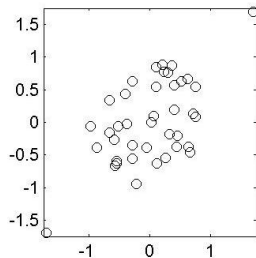
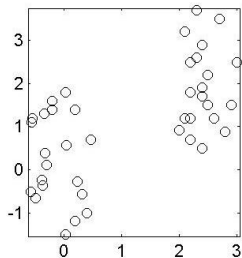
where  $x_i, y_i \in \mathbb{R}$

- Let  $\rho = 0.6$



**What does " $\rho = 0.6$ " mean  
for the given data?**

# Datasets with $\rho = 0.6$



# Definition of Statistics

- **Statistics is ...**







**Thank you for your attention!**