

The background features a dark blue, textured surface with a fine grid pattern. In the center, there is a large, stylized graphic of two hands, one on the left and one on the right, rendered in a lighter blue color. The hands are positioned as if they are holding a large, light blue hash symbol (#) that is centered between them. The text is overlaid on this graphic.

JOSÉ BARROS

ACADEMIC MIND IN INDUSTRY

CONTENT

1. BACKGROUND
2. PHD
3. BUSINESS INTELLIGENCE

BACKGROUND

- BSc/MSc PHYSICS
- ALWAYS KEEN ON COMPLEX SYSTEMS ANALYSIS, ESPECIALLY DYNAMICAL SYSTEMS
- NEUROSCIENCE, MUSIC, ARTIFICIAL INTELLIGENCE
 - PROCESS OF HEARING

PHD IN THE UK

- PURSUE OF AN ACADEMIC CAREER
- OPPORTUNITY TO APPLY THE KNOWLEDGE LEARNT
- MONEY

PHD IN THE UK

- ADAPTATION TO A NEW FIELD: MANAGEMENT
- LITERATURE REVIEW WAS THE FIRST AND ONE OF THE BIGGEST CHALLENGES
- NEW REQUIREMENTS:
 - HOW DOES A COMPANY BENEFIT FROM THIS STUDY?
 - WHY ARE WE DOING THIS?
 - HOW MUCH WILL IT COST US?



NOW YOU ASK

OH ZÉ, WHAT DOES THIS HAVE ANYTHING TO DO WITH DATA SCIENCE?

DATA SCIENCE

DATA SCIENCE IS A CONCEPT
TO UNIFY STATISTICS, DATA
ANALYSIS AND THEIR RELATED
METHODS, IN ORDER TO
ANALYZE ACTUAL
PHENOMENA WITH DATA.

WIKIPEDIA + CHIKIO HAYASHI

DATA SCIENCE IS THE
MARRIAGE OF STATISTICS
AND COMPUTER SCIENCE

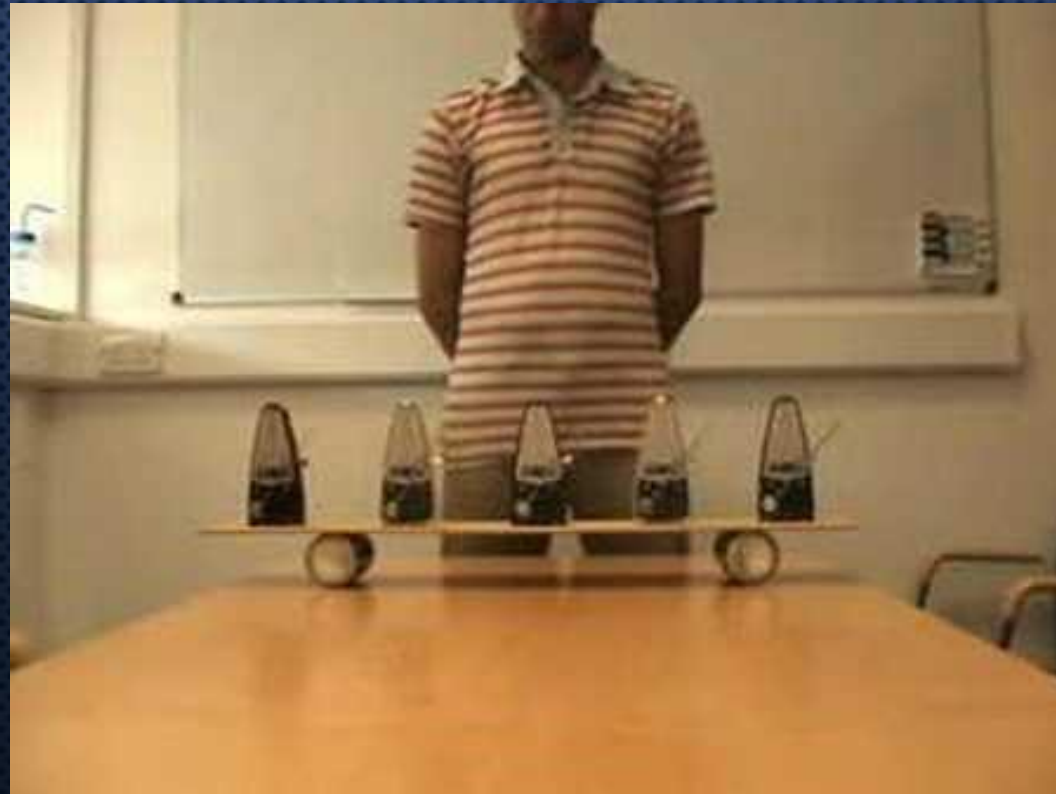
JANET KAMIN

DATA SCIENCE IS THE
MARRIAGE OF COMPLEX
SCIENCE AND THE HUMAN
NEED TO UNDERSTAND
PATTERNS

ZÉ

BSc/MSc THESIS

- ANALYSIS OF SYNCHRONIZATION PHENOMENA WITH NONLINEAR OSCILLATORS



PHD THESIS

- ANALYSIS OF STRUCTURAL ROBUSTNESS IN AUTOMOTIVE SUPPLY NETWORKS
- NETWORK IS A GROUP OF INDIVIDUALS AND THEIR CONNECTIONS
- ROBUSTNESS IS THE NETWORK'S ABILITY TO ENDURE ATTACKS
- DATA SET OF 40K COMPANIES

BUSINESS ANALYST

- CONSULTANCY COMPANY FOCUSED ON ANALYTICS
- DATA ANALYSIS TO EXPLAIN MANY DIFFERENT PHENOMENA IN TERMS OF BUSINESS
- PRESENT THE DATA IN A EASY FORM TO THE CLIENTS
 - TODAY, DATA ANALYSIS IS FUNDAMENTAL TO EMERGE MEANING FROM THE NOISE

CONCLUSIONS

- DATA ANALYSIS AND ABSTRACT SYSTEMS
- DRAW CONCLUSIONS
- ANALYSIS OF LARGE DATABASES
- STATISTICAL ANALYSIS
- PLOT RESULTS IN A MEANINGFUL FASHION



QUESTIONS

THANK YOU FOR YOUR ATTENTION