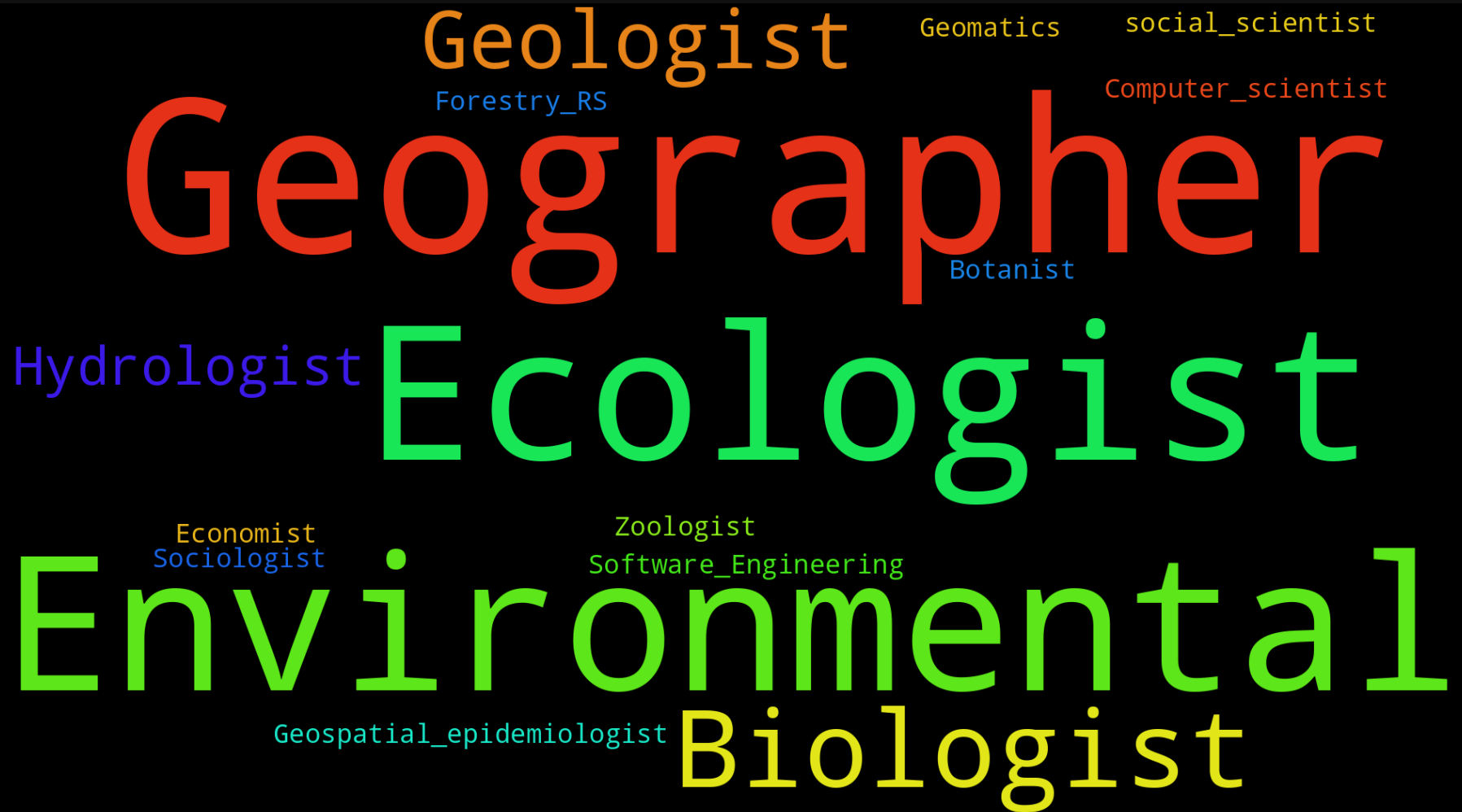


# Spatial Statistics

5 Apr. 2022

**about U**

# Expertise



# Math Capacity

Bayes\_Theorem

hypothesis\_testing linear\_models

linear\_transformations

vectors\_n\_products

statistical\_moments

point\_estimation

matrix\_determinants

common\_distributions

matrix\_multiplication

eigenvalue\_problems

confidence\_intervals

joint\_distributions

derivatives\_n\_properties

**from Me**

# Observations

# Observations

- Diversity

# Observations

- Diversity
- Enthusiasm



# Observations

- Diversity
- Enthusiasm
- Energy

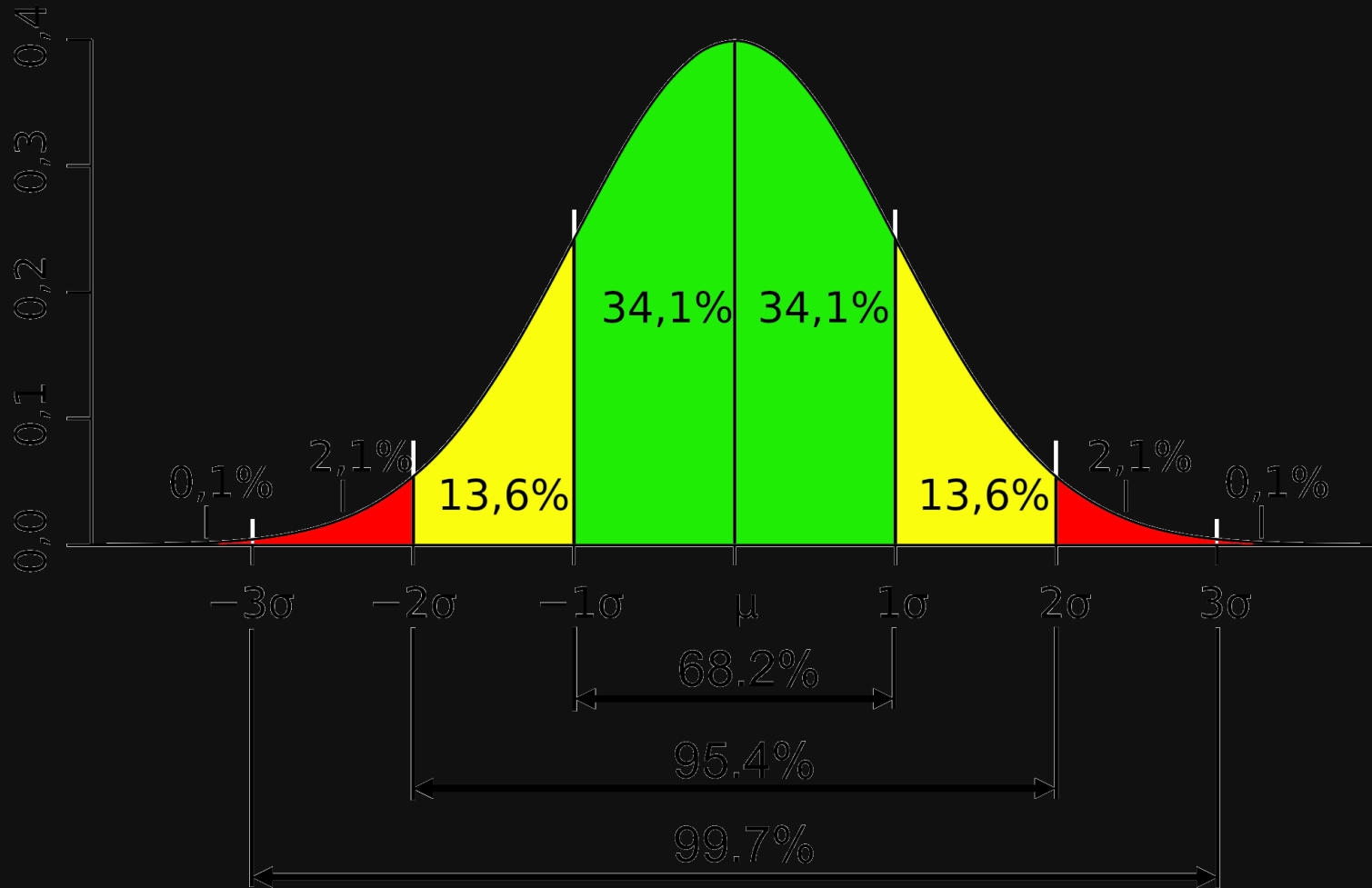
# Observations

- Diversity
- Enthusiasm
- Energy
- Motivations

# Observations

- Diversity
- Enthusiasm
- Energy
- Motivations
- Challenges

# Possible Strategies





# Philosophy

# Philosophy

- You are living

# Philosophy

- You are living
- You occupy space



# Philosophy

- You are living
- You occupy space
- You have a mass

# Philosophy

- You are living
- You occupy space
- You have a mass
- You Matter !

# Philosophy

## Maximisation

- potential
- capacity
- no limits

# Offers

# Scientific Aspiration

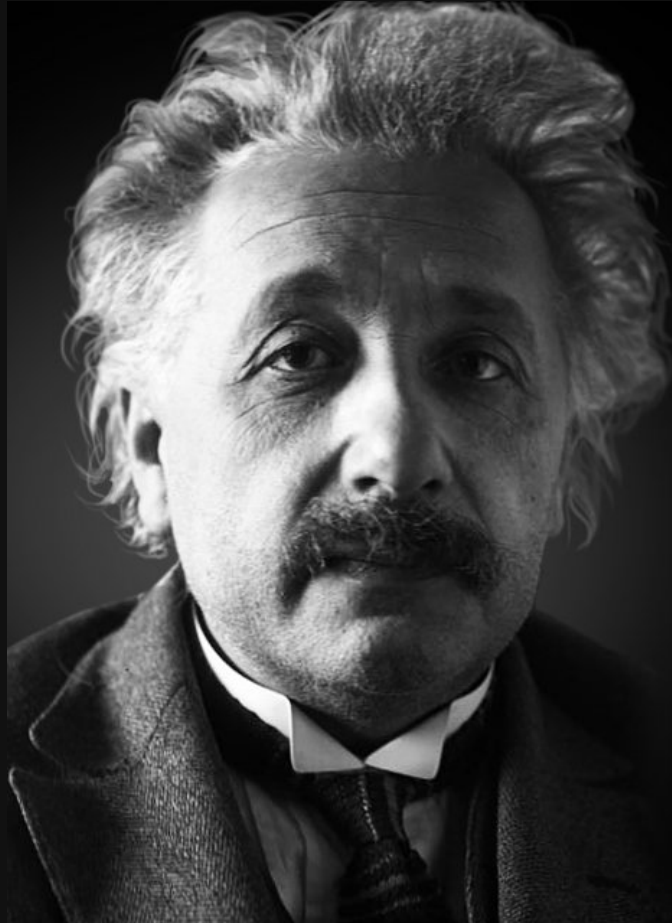
# Power of Thinking

- Scientific Exploration
- Scientific Defence

# Power of Thinking

*"... I strongly ask you to do k-fold cross validation ... Because RF is a strong data-driven approach, k-fold cross validation (at least) is need for avoiding overfitting of the RF model. Correlation coefficient (most important for this dataset) is not sufficiently secured with only one split process."*

# Power of Thinking



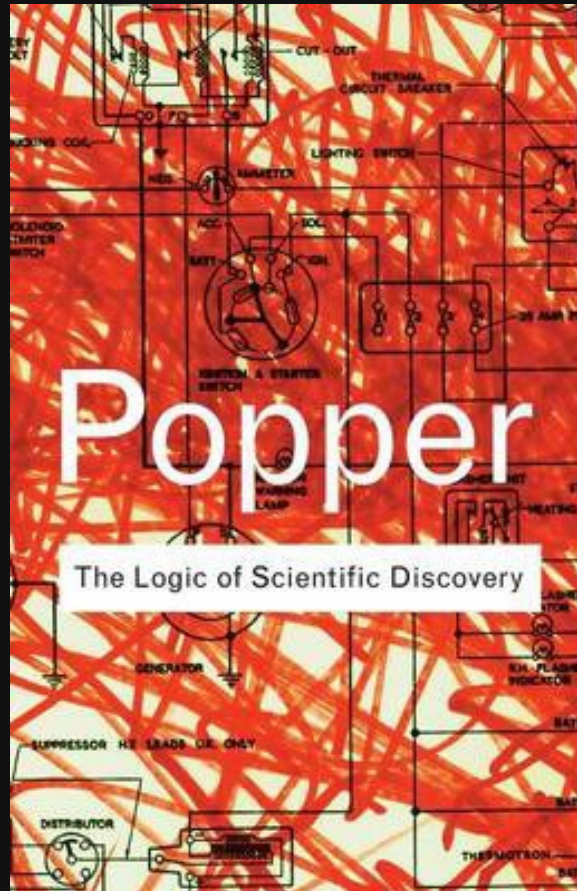
Weak people **revenge**.  
Strong people **forgive**.  
Intelligent People **Ignore**.

– *Albert Einstein*

AZ QUOTES



# Power of Thinking



- problems with induction

# Power of Thinking



# Approaches

# Approaches

- Methods : generally applicable

# Approaches

- Methods : generally applicable
- Provocative case studies

# Approaches

- Methods : generally applicable
- Provocative case studies
- Pedagogical logic

# NOT

- recipe book

# YES

- chef training



# NOT

- coding centric

# YES

- innovative thinking
- problem solving ability

# Example

In late May 1968, a nuclear submarine SSN-589 was lost at sea as it was returning to its naval base at Norfolk, Virginia. The search started in an vast area of the Atlantic Ocean. The task was challenging for the lack of knowledge about the cause and uncertainty about the location of the sinking.

# Language



The book of nature is written in  
the language of mathematics.

Galileo Galilei

“quotation”

# Language

The **essence of mathematics**  
is not to make  
*simple things complicated*, but to  
make complicated  
things simple.

– Stan Gudder  
*Mathematician*

# NOT

- knowledge accumulation
- outcome testing

# YES

- capacity building
- directional thinking

# YES



May it be a light to you in dark  
places, when all other lights go out.

— *J. R. R. Tolkien* —

AZ QUOTES



# Ask

- Feedback
- Engagement
- Interactions

# NOT

- command-n-control

# YES

- voluntary participation

# Goal

- Live community



Do your duty, that is best; leave unto the Lord the rest.

(David O. McKay)

IZQuotes

# Goal



**ROME WASN'T BUILT IN A DAY.**



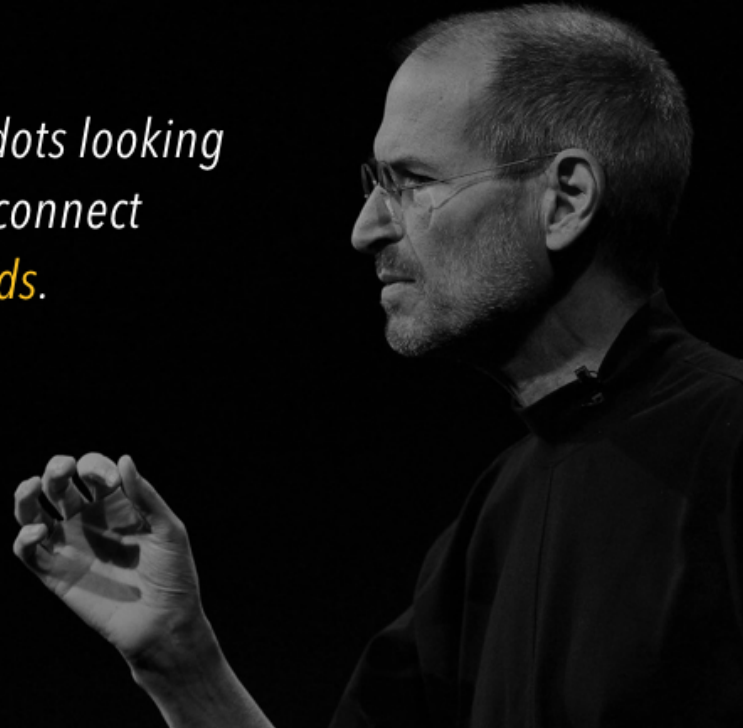
# Goal

“

*You can't connect the dots looking  
forward; you can only connect  
them looking backwards.*

**Steve Jobs**

1955 - 2011



# Thanks for Attention

