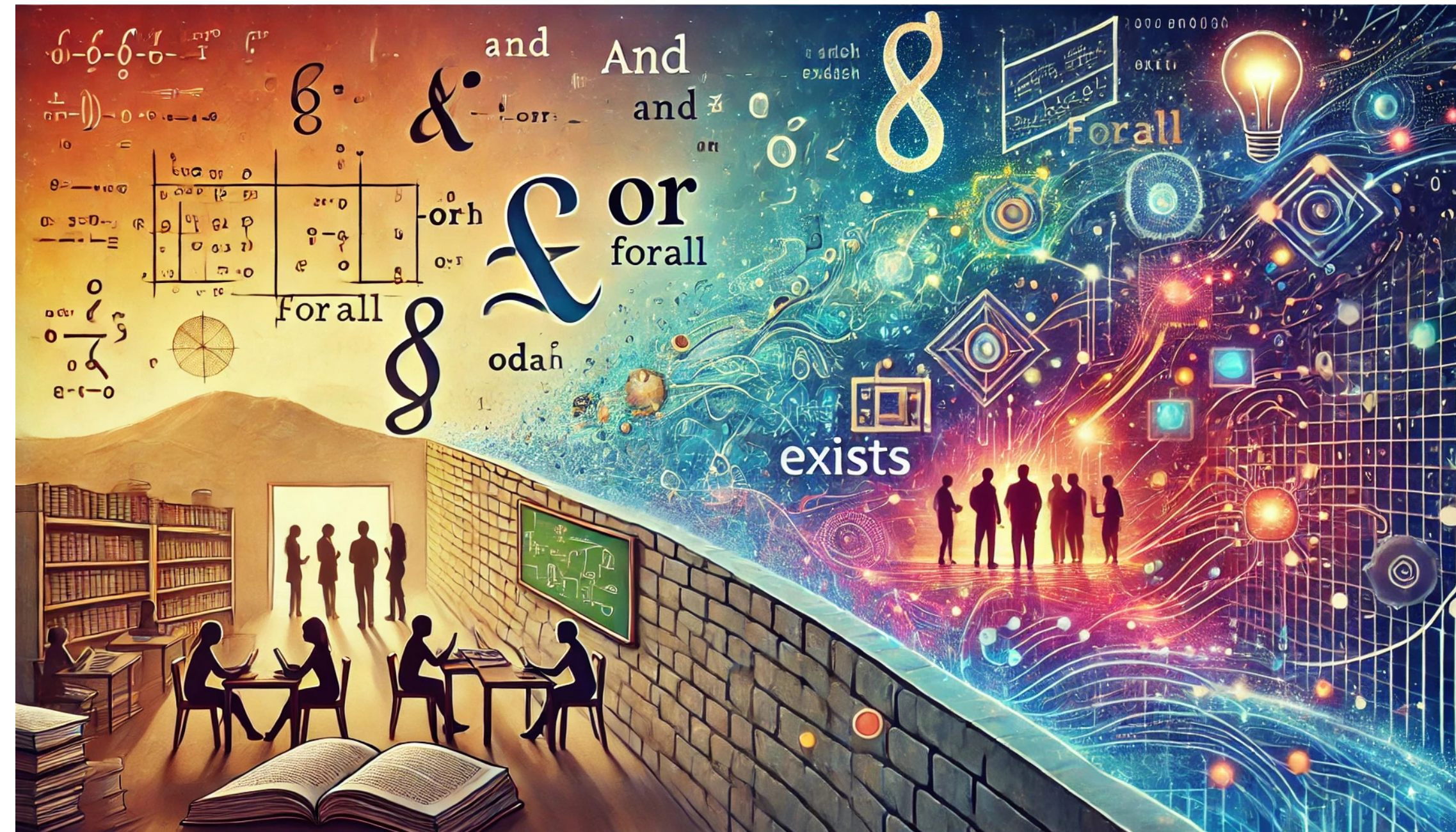


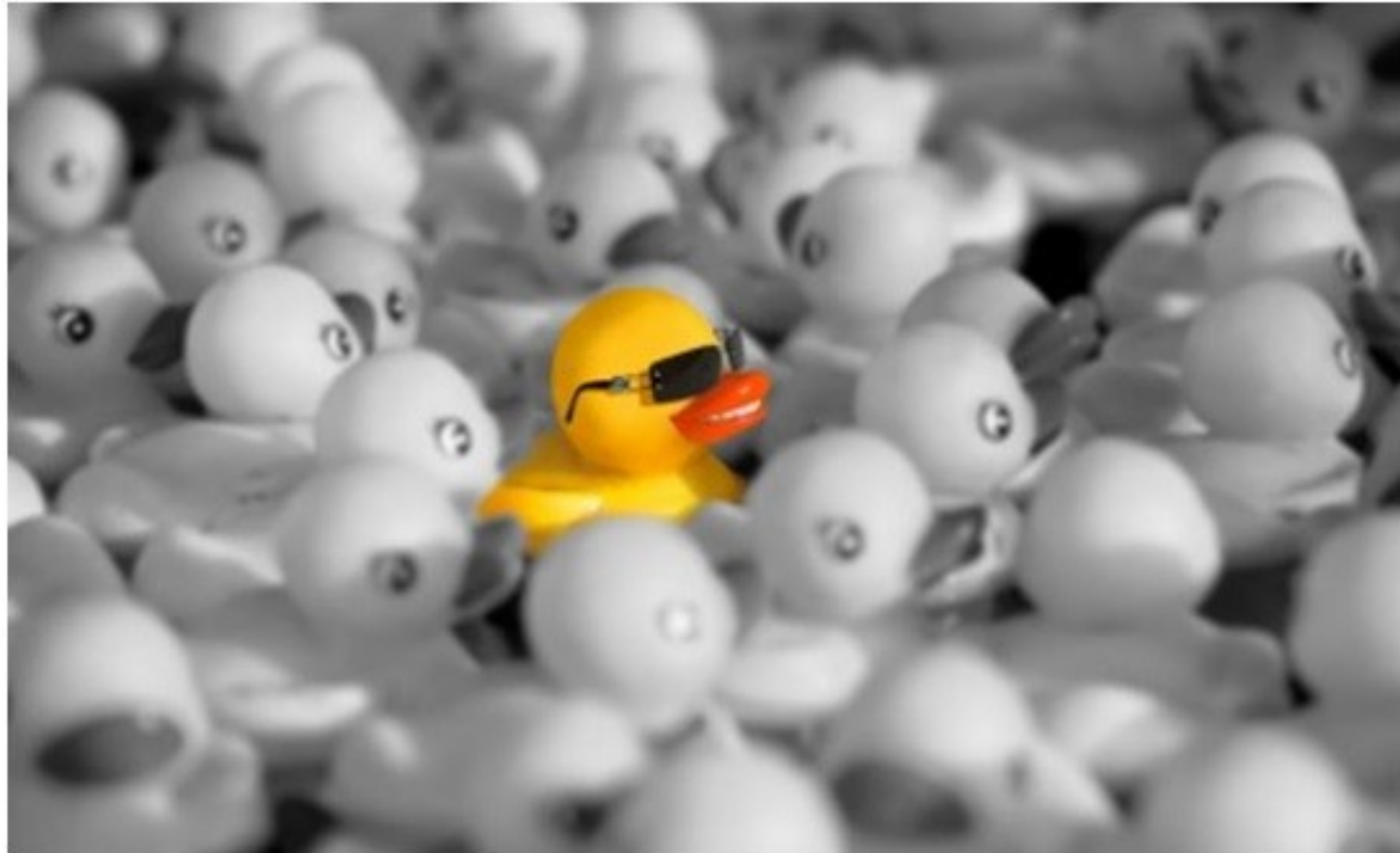
# Logic Outside the Wall: Outreach, Popularisation, and the Future



Logic Mentoring Workshop @ CSL  
Elaine Pimentel - UCL  
10 February 2025



Or the happy *grimme ælling*?

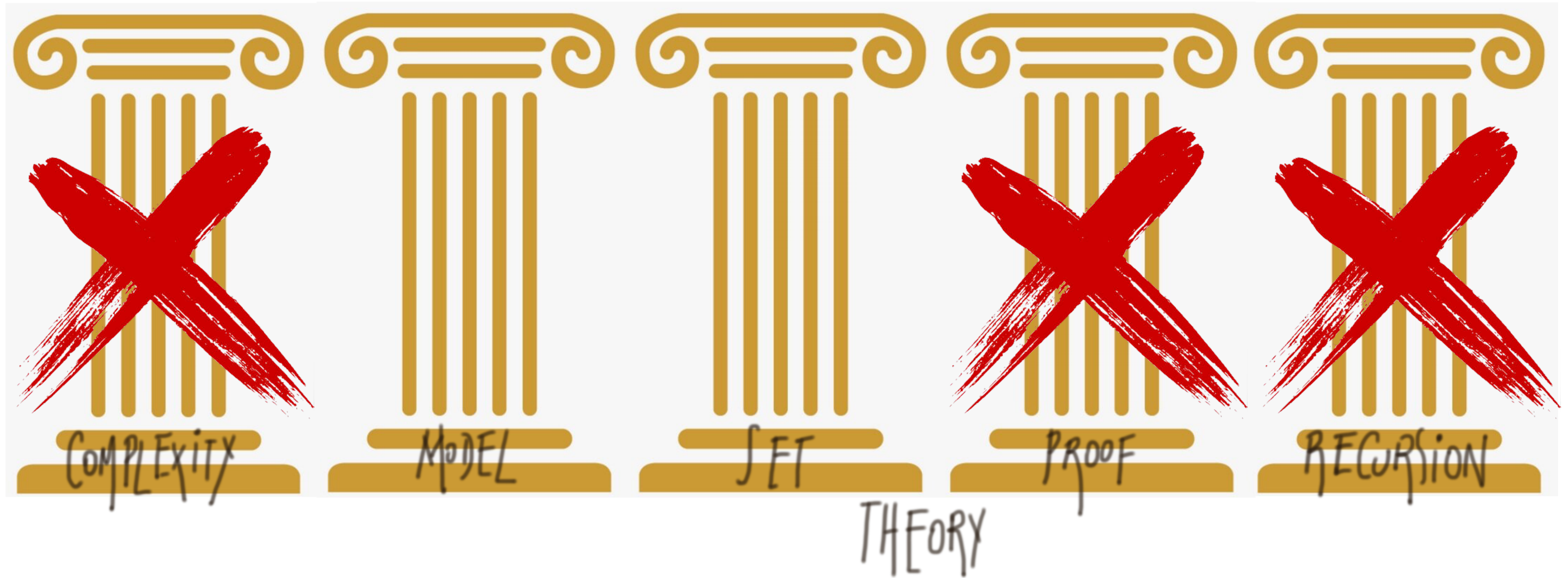


1  
Logic!

Credit: Digital senior

In Math

# MATHEMATICAL LOGIC



1

Math Logic

# In Philosophy

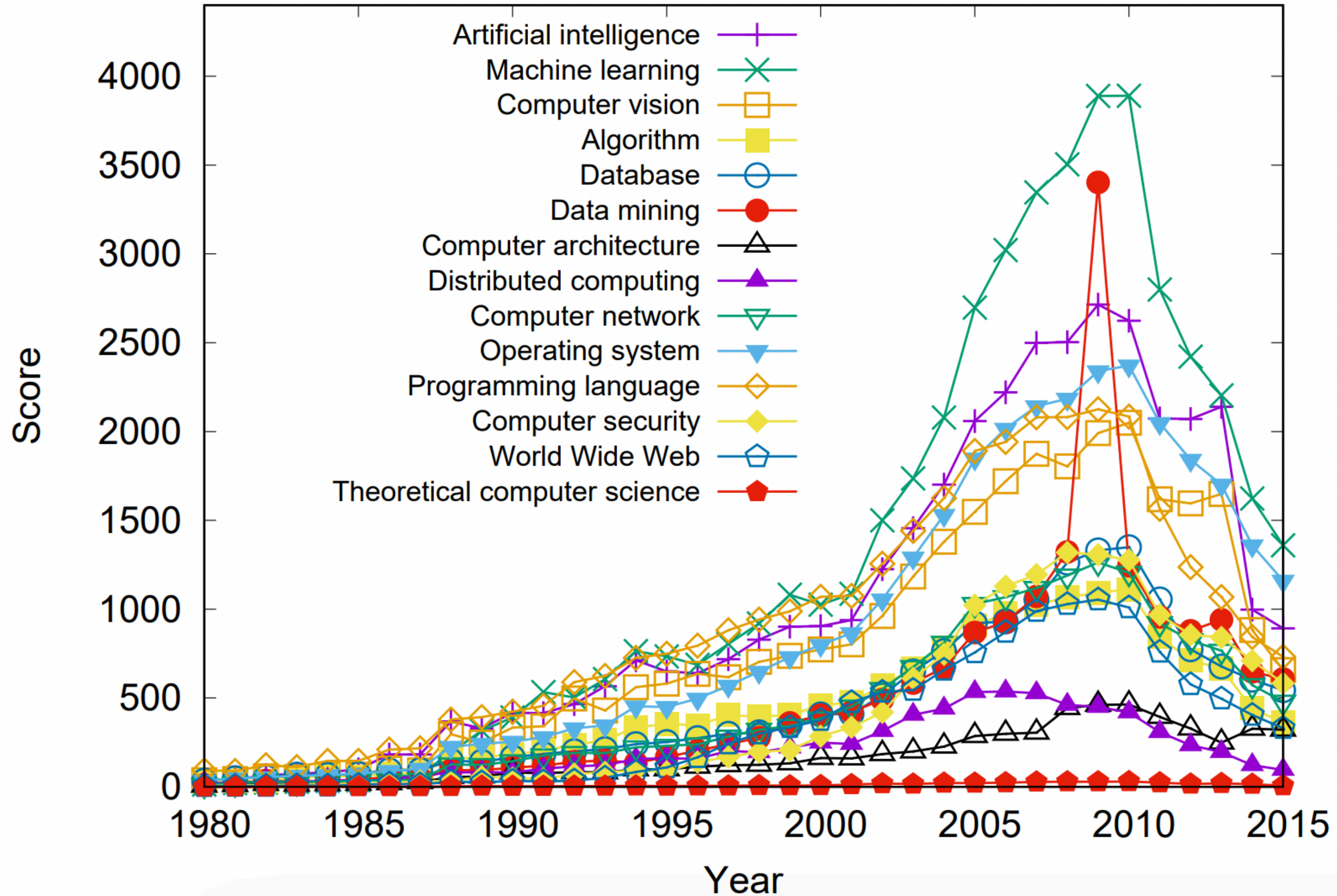
MATRÍCULA WEB		2021/2 Entrar		
	Código	Disciplina	Créditos	Área
PÓS-GRADUAÇÃO(Mestrado/Doutorado)	206474	EPISTEMOLOGIA	004 002 000 000	AC
CURSO +	207616	ESTÉTICA E FILOSOFIA DA ARTE	004 002 000 000	AC
OFERTA +	202681	ÉTICA FILOSÓFICA	004 002 000 004	AC
SERVIÇOS +	206512	FILOSOFIA ANTIGA	004 002 000 000	AC
	100609	FILOSOFIA CONTEMPORÂNEA	004 002 000 000	AC
	207624	FILOSOFIA DA CIÊNCIA	004 002 000 000	AC
	102539	FILOSOFIA GERAL E METAFÍSICA	004 002 000 000	AC
	206491	FILOSOFIA MEDIEVAL	004 002 000 000	AC
	207608	FILOSOFIA MODERNA	004 002 000 000	AC
	206482	FILOSOFIA POLÍTICA	004 002 000 000	AC
	201405	INTROD À HISTÓRIA DA FILOSOFIA	004 002 000 004	AC
	201448	INTRODUÇÃO A PRAT FILOSÓFICA	004 002 000 006	AC
	206504	LÓGICA	004 002 000 000	AC
	137391	MONOGRAFIA FILOSÓFICA	008 000 000 008	AC
	136069	PROJ DE MONOGRAFIA FILOSÓFICA	004 000 000 005	AC
	100587	TEORIAS FILOSÓFICAS LINGUAGEM	004 002 000 000	AC

1

Phil Logic

# In Computer Science

1  
CS Logic



**Analysing Trends in Computer Science Research**

A Preliminary Study Using The Microsoft Academic Graph

Suhendry Effendy, Roland H.C. Yap

2017 International World Wide Web Conference Committee (IW3C2)

# Little voice, almost no recognition

what are other  
words for  
underrepresented?



undersold, understated,  
lessened, diminished,  
underpriced, denigrated,  
cheapened, undercharged



# Why??

- Not enough "logic" in schools?

# 2

## Why?





# 2

## Why?

### Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?



# 2

Why?

## Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?
- Not enough "talking to our peers"?



# Why??

- Not enough "logic" in schools?
- Not enough "logic" at the university?
- Not enough "talking to our peers"?
- Not enough "break out of the bubble"?



# 2

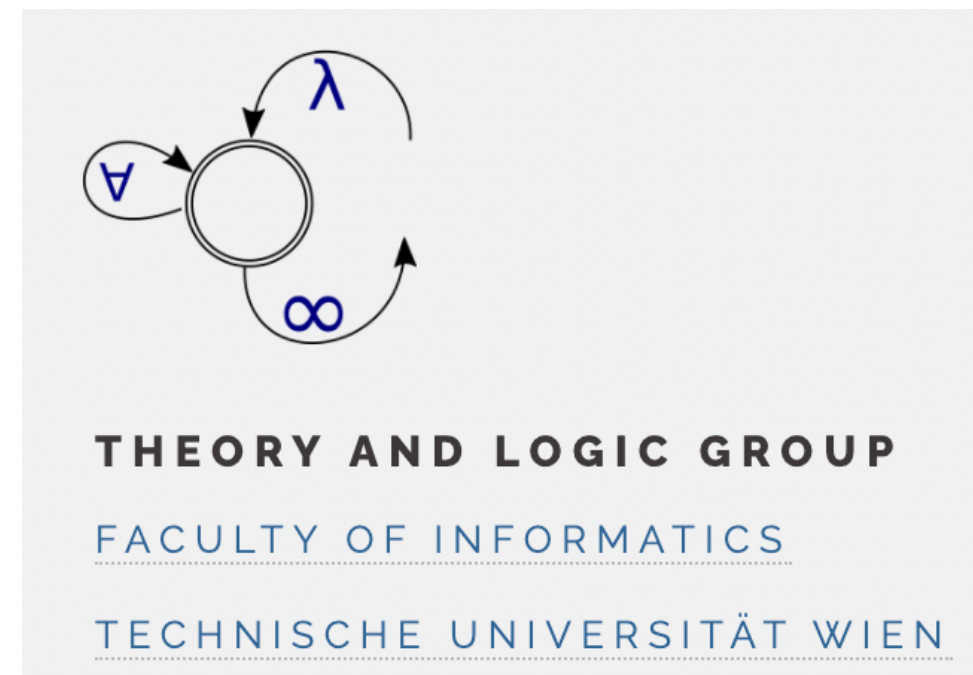
Why?

# Engage

Diversification of subjects, applications...

3

Actions  
Pairs!



Medicine, Indian Philosophy, AI...

Engage

Interdisciplinary



© Arco Mul



Quantum, NLP, Social networks, Formal verification...

3

Actions  
Pairs!

Engage

Interdisciplinary



© Arco Mul

3  
Actions  
Pairs!

Quantum, NLP, Social networks, Formal verification...

# Innovate

4  
Actions  
Uni!



© Arco Mul



Institute for Logic,  
Language and  
Computation



Philosophy and  
Computer Science  
BA

Interdisciplinary institutes and courses

Create textbooks

4

Actions  
Uni!



**Logic in Action**

---

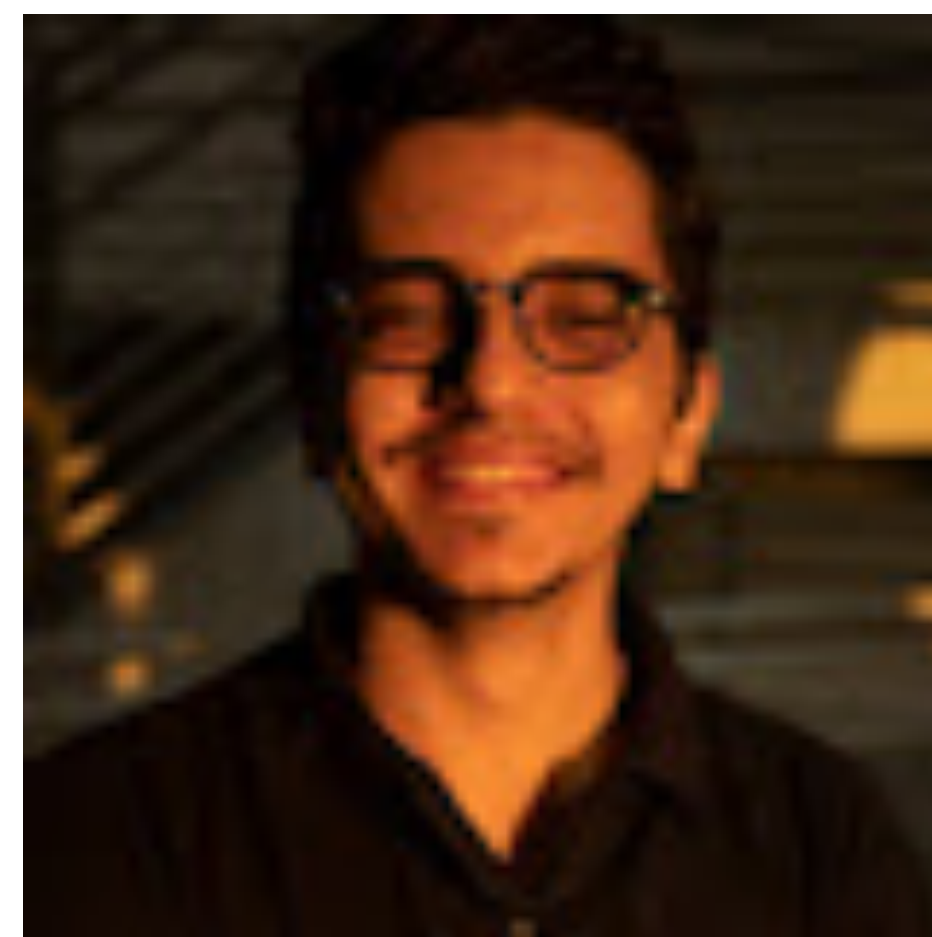


## A case study

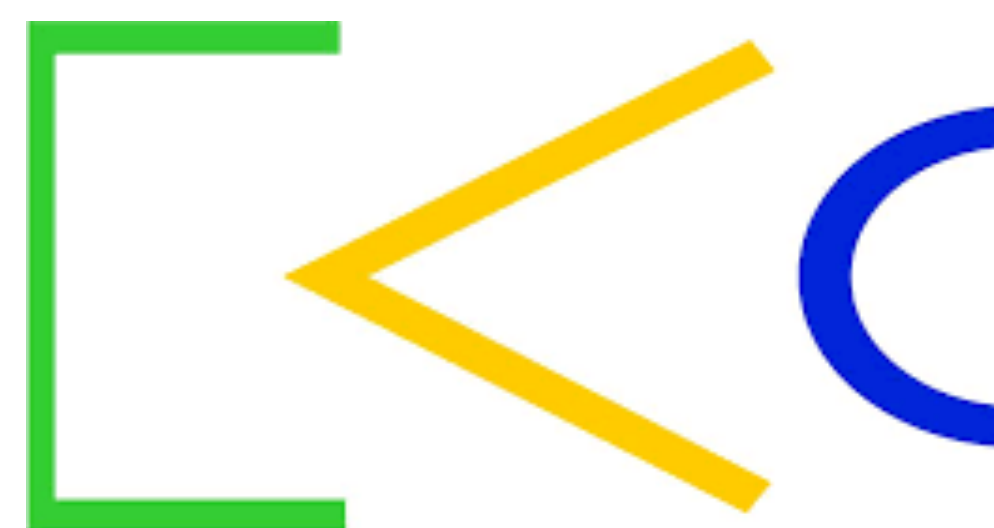
João Marcos



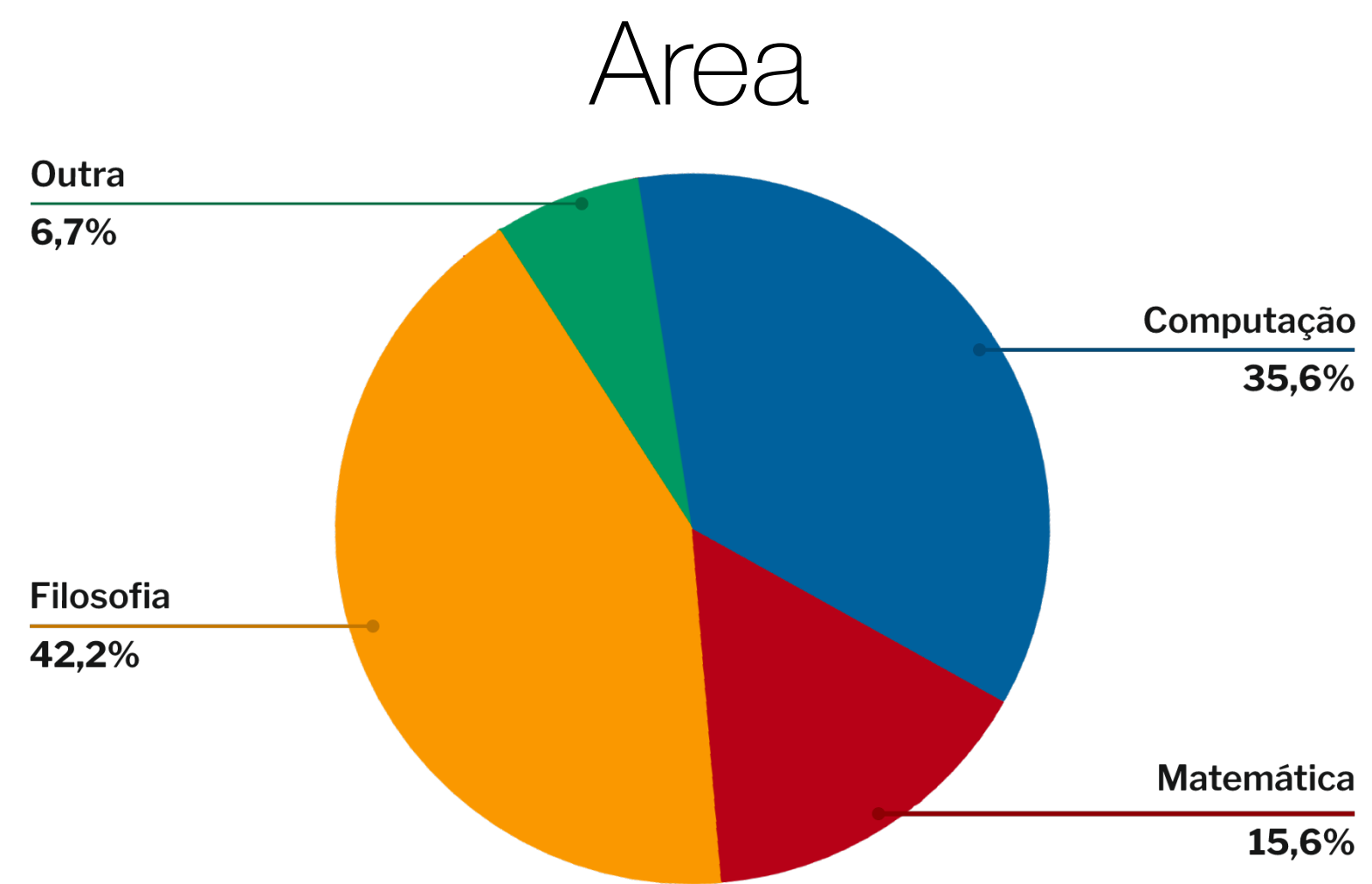
João Mendes



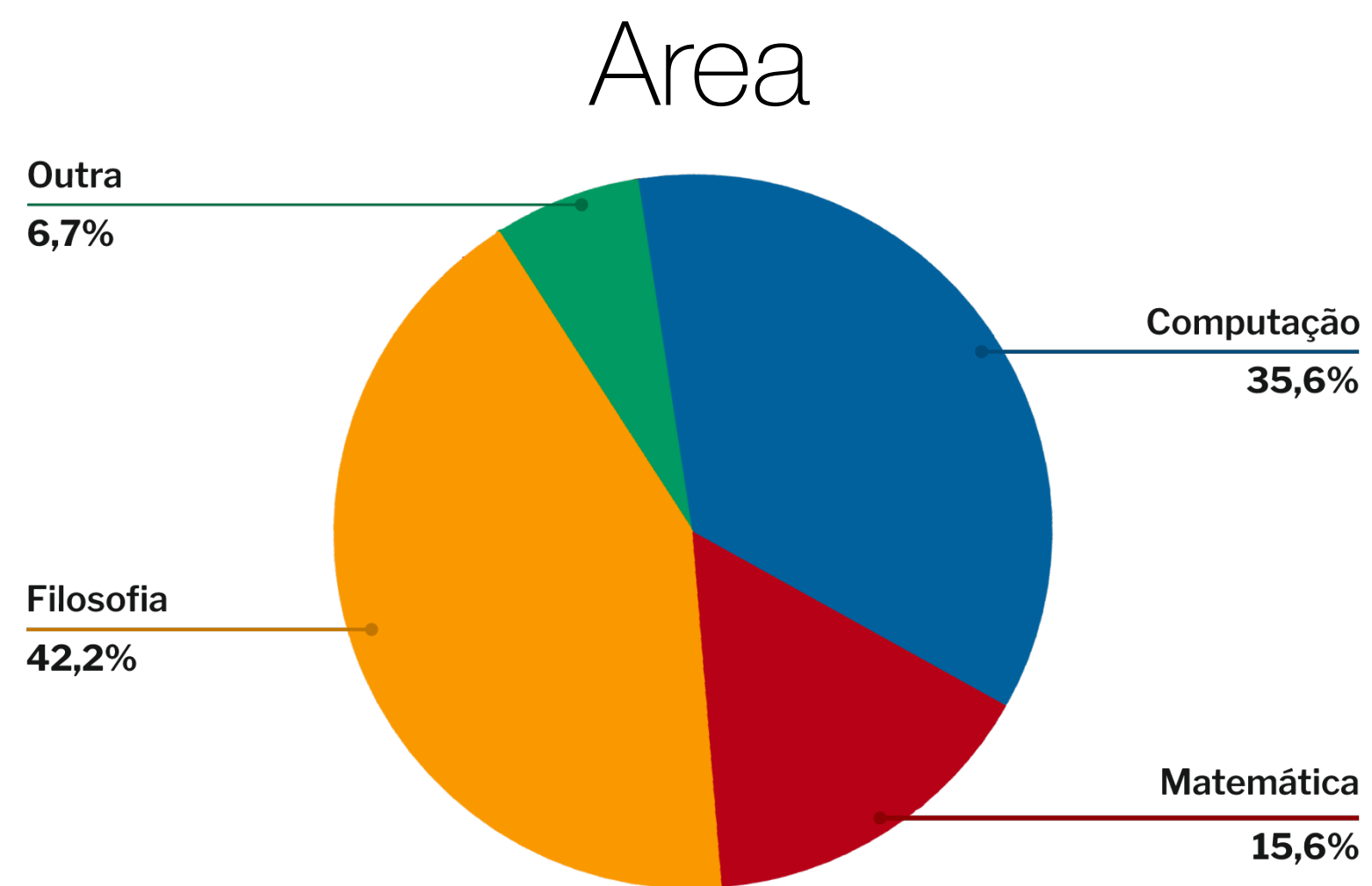
Evelyn Erickson



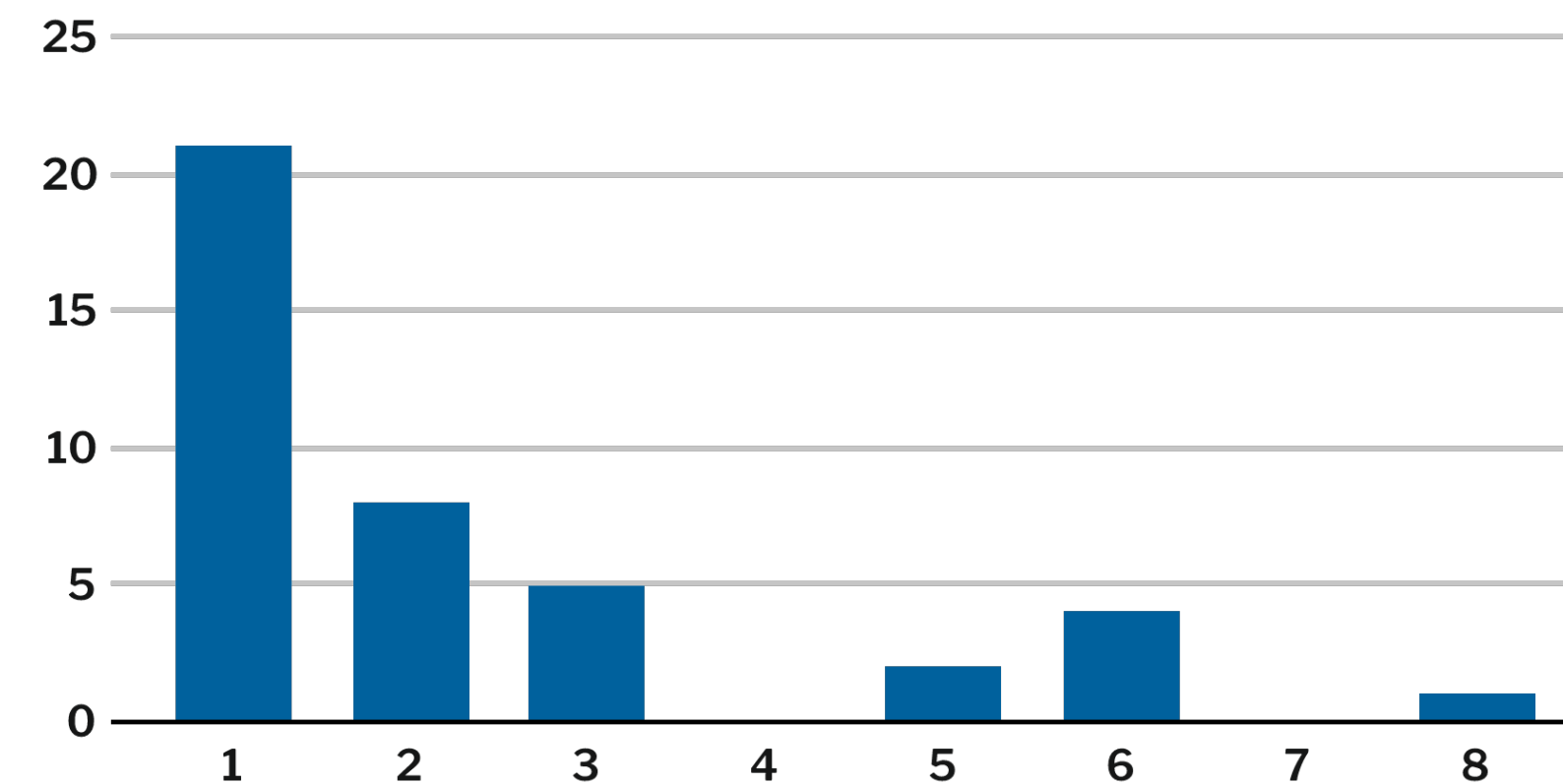
# A case study



# A case study

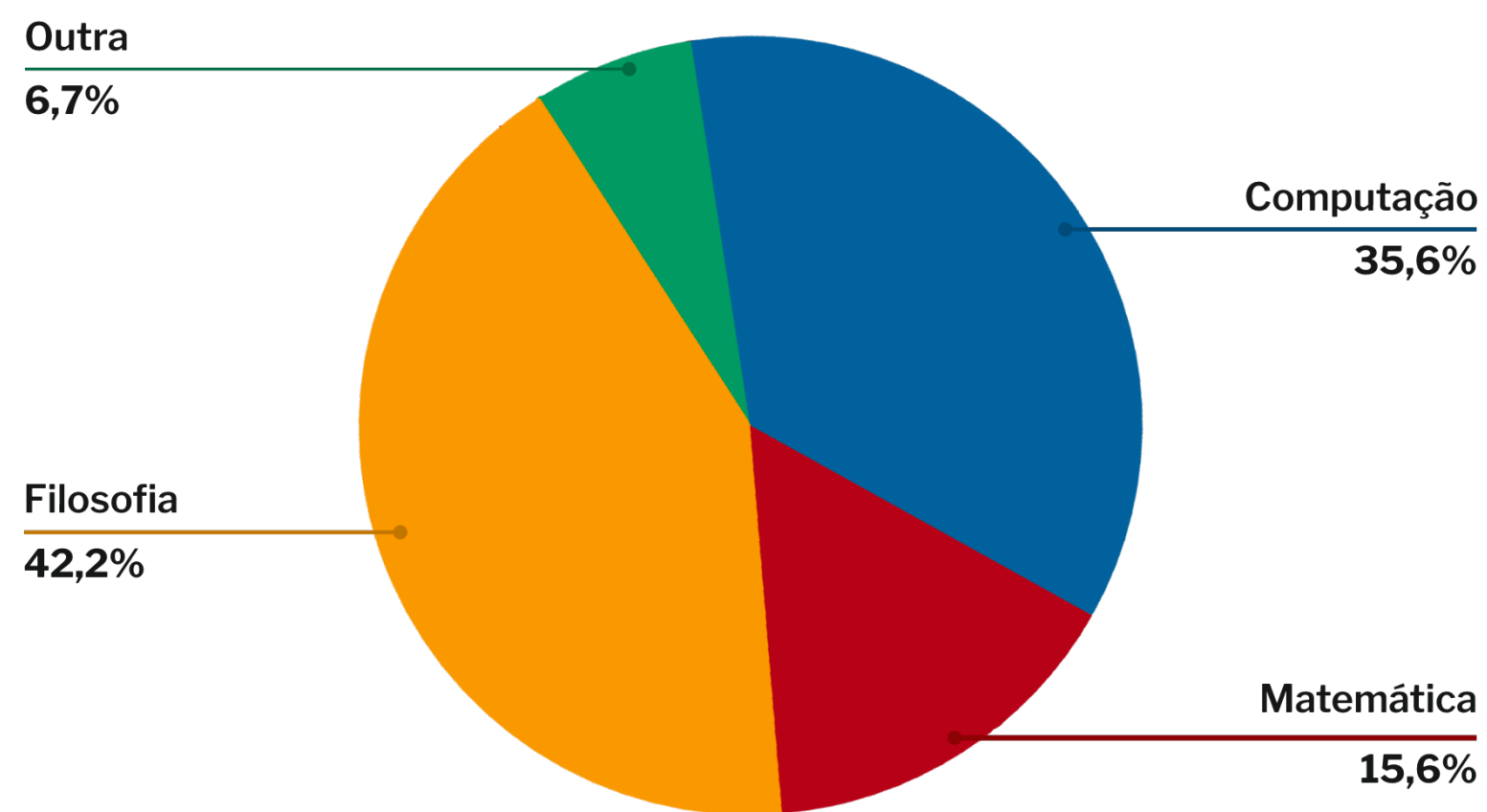


## 1st contact

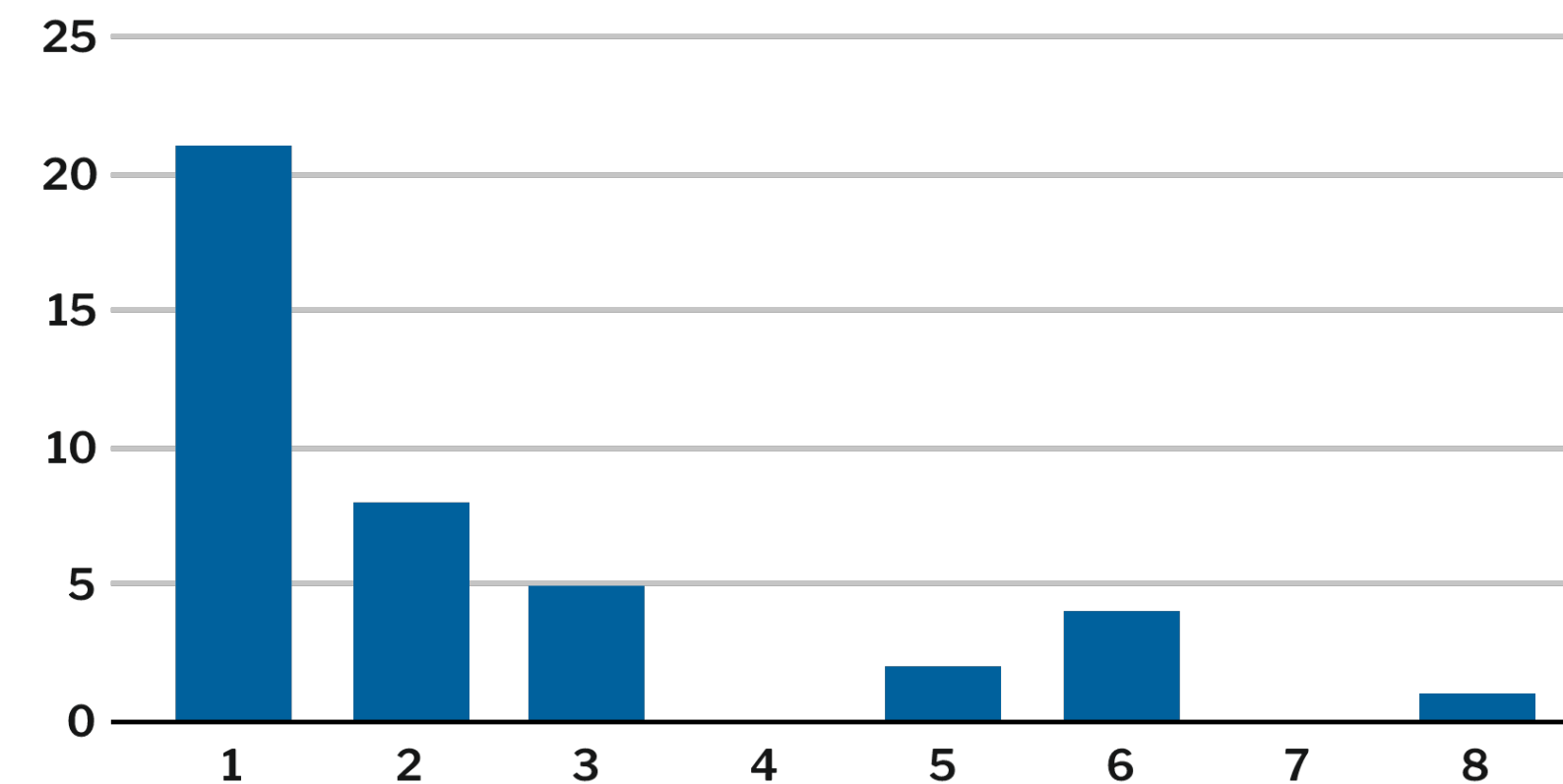


# A case study

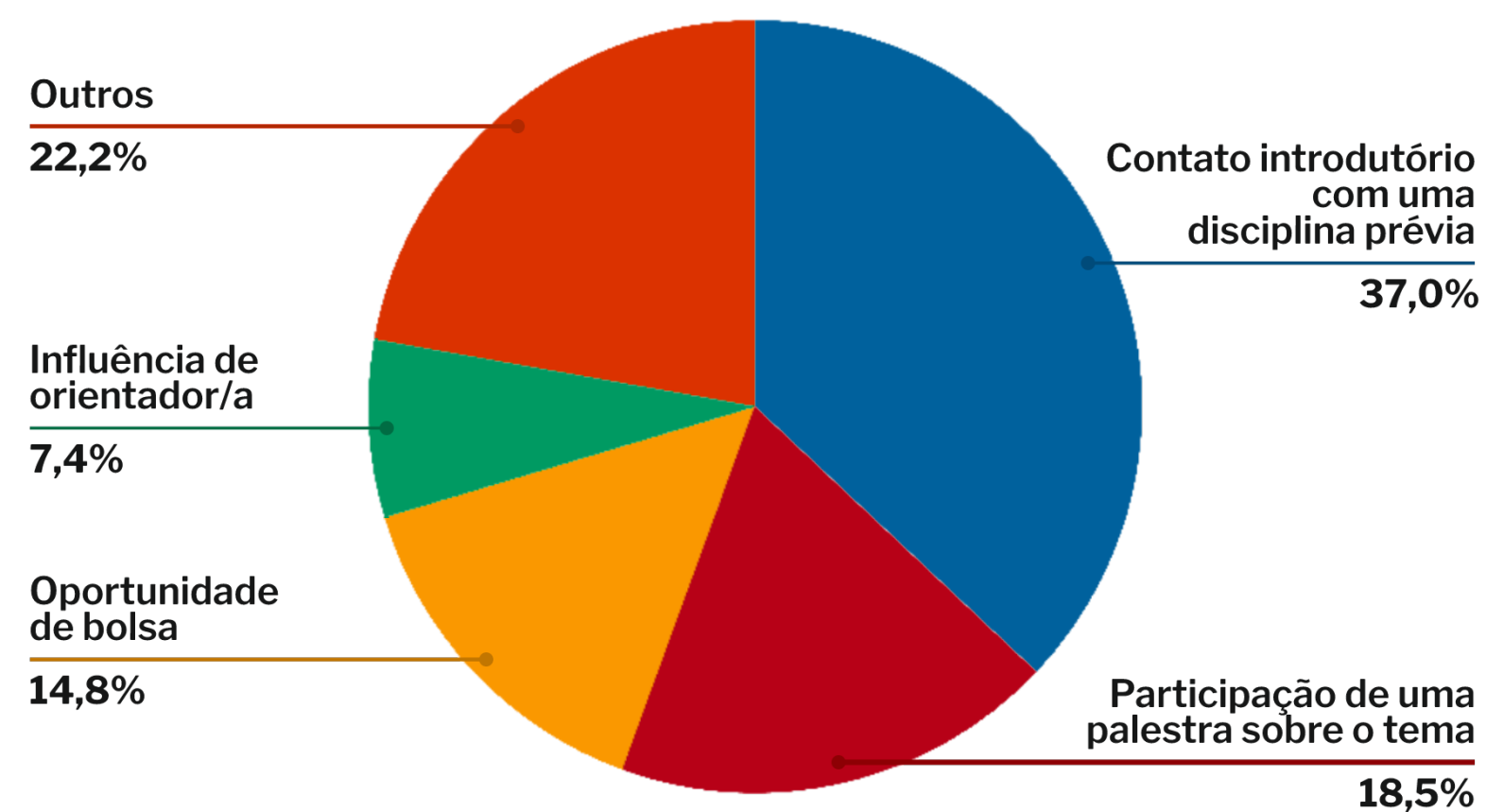
## Area



## 1st contact

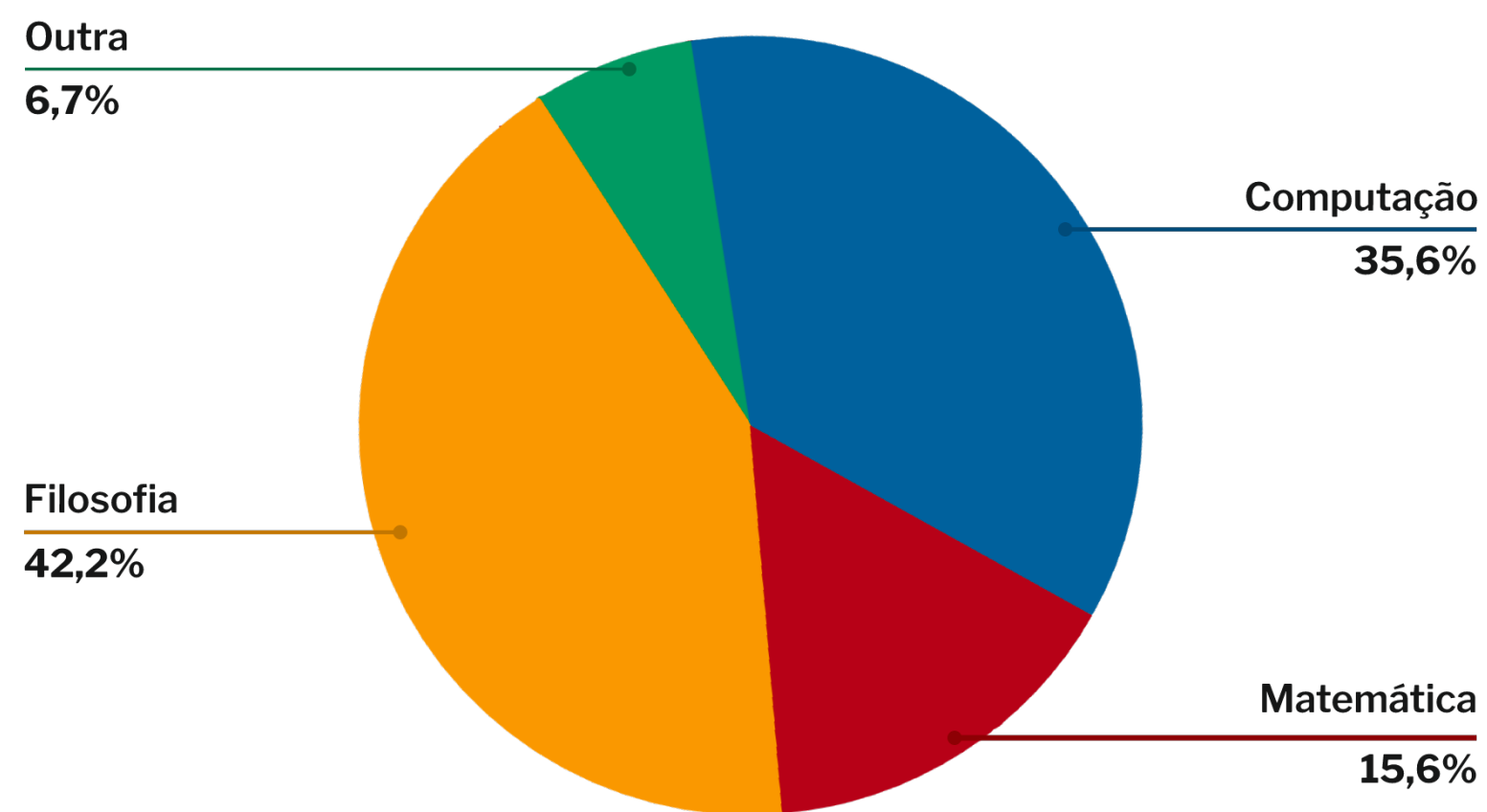


## How?

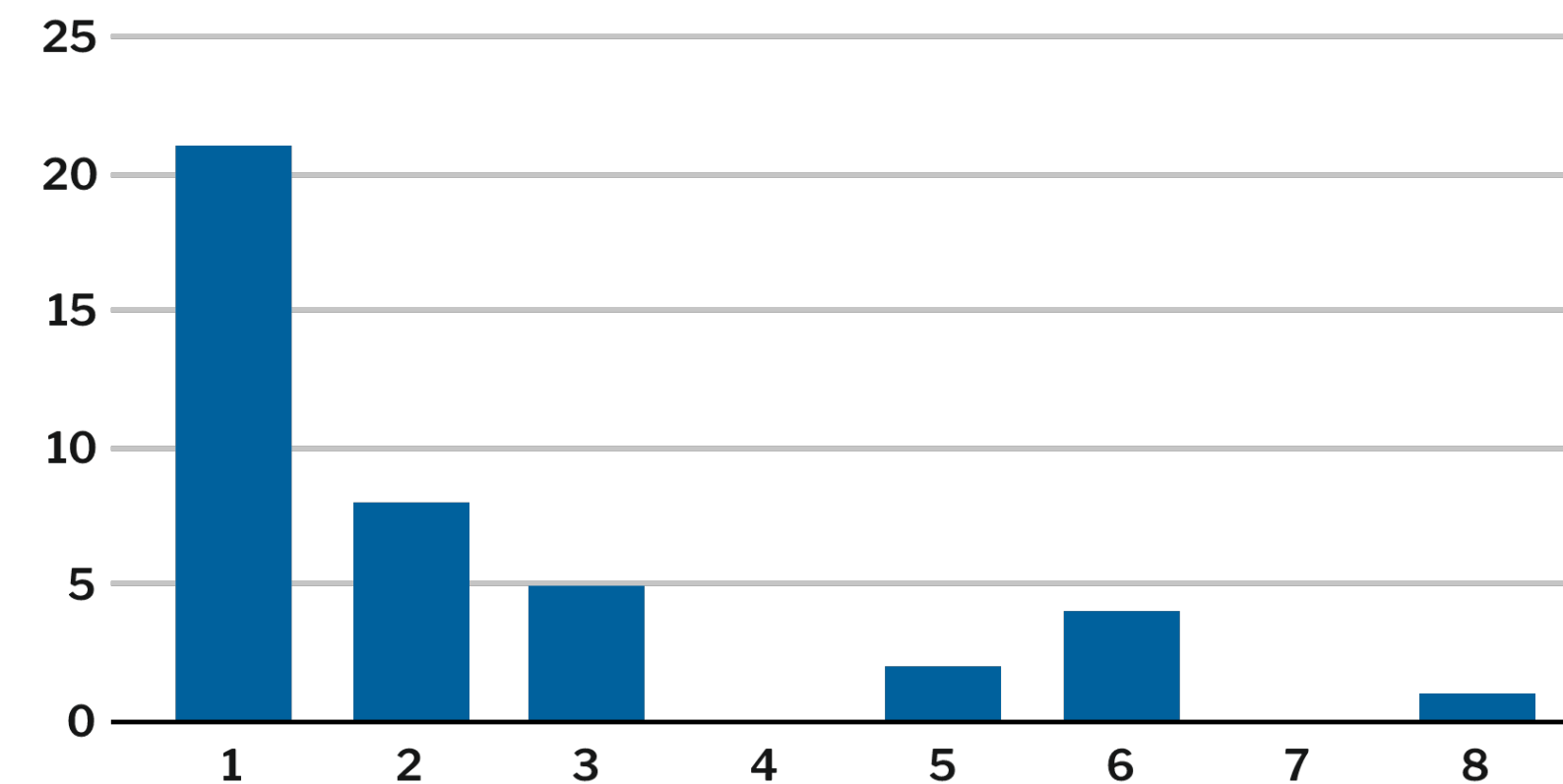


# A case study

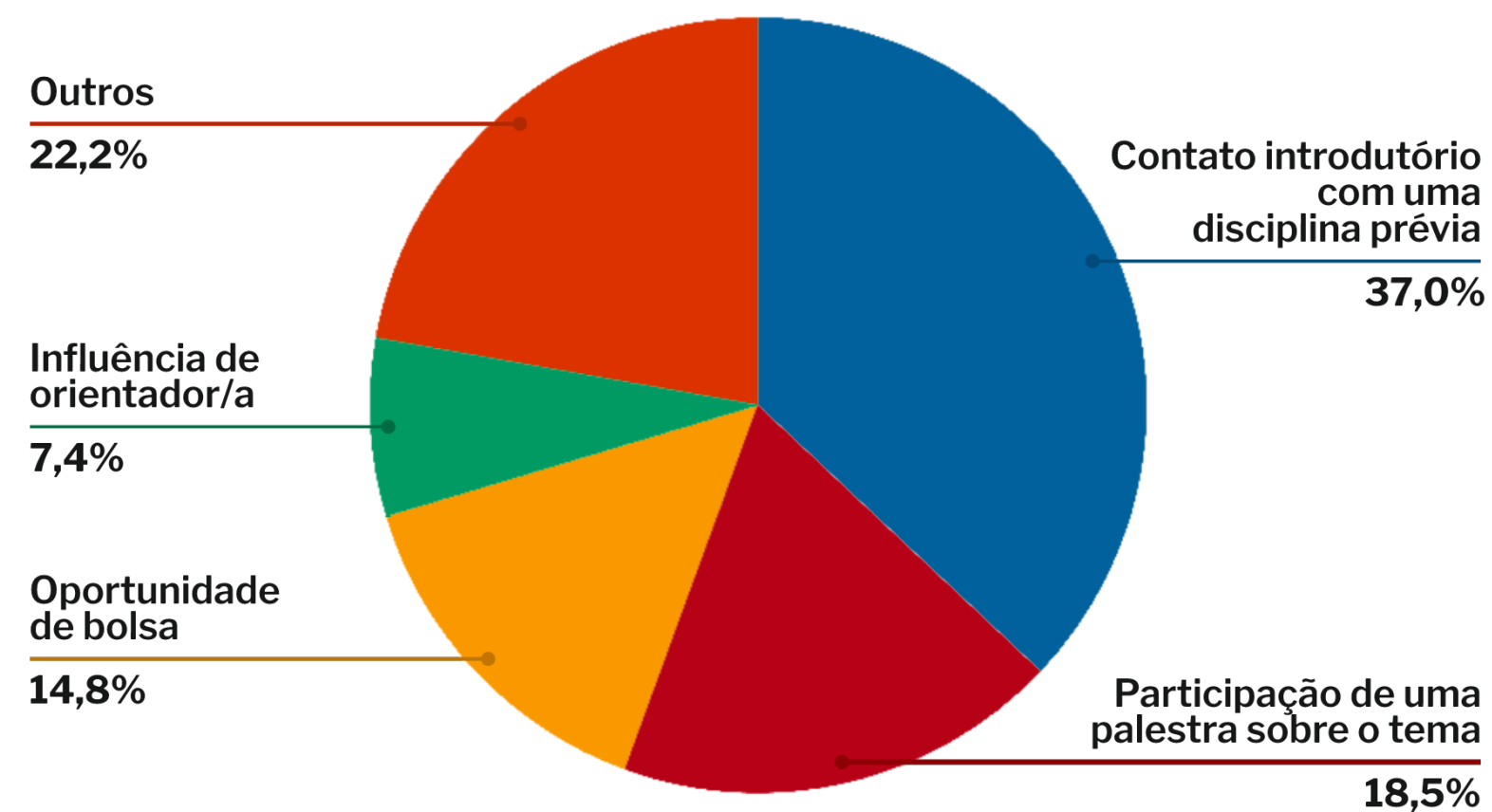
## Area



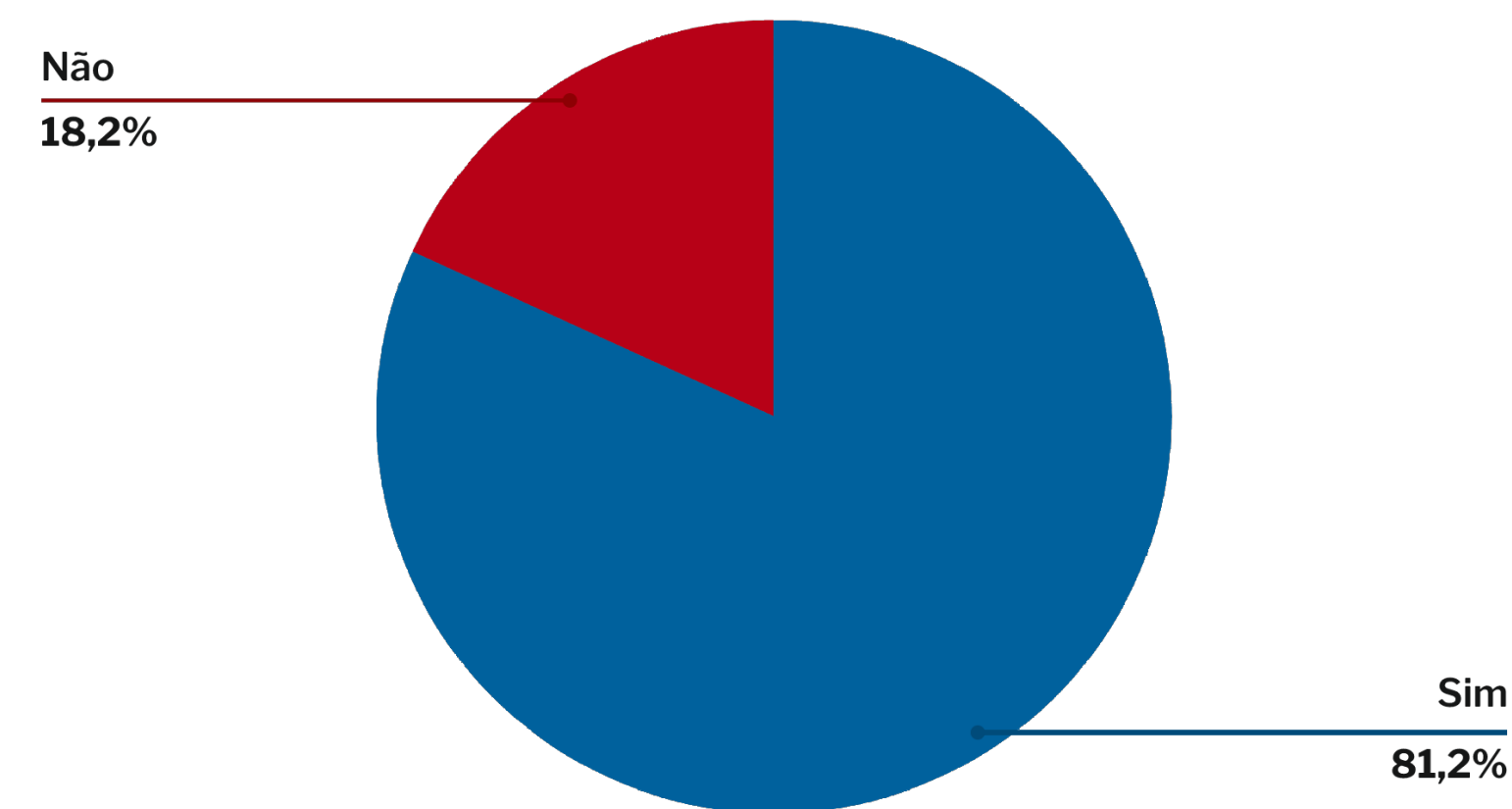
## 1st contact



## How?



## Will continue?



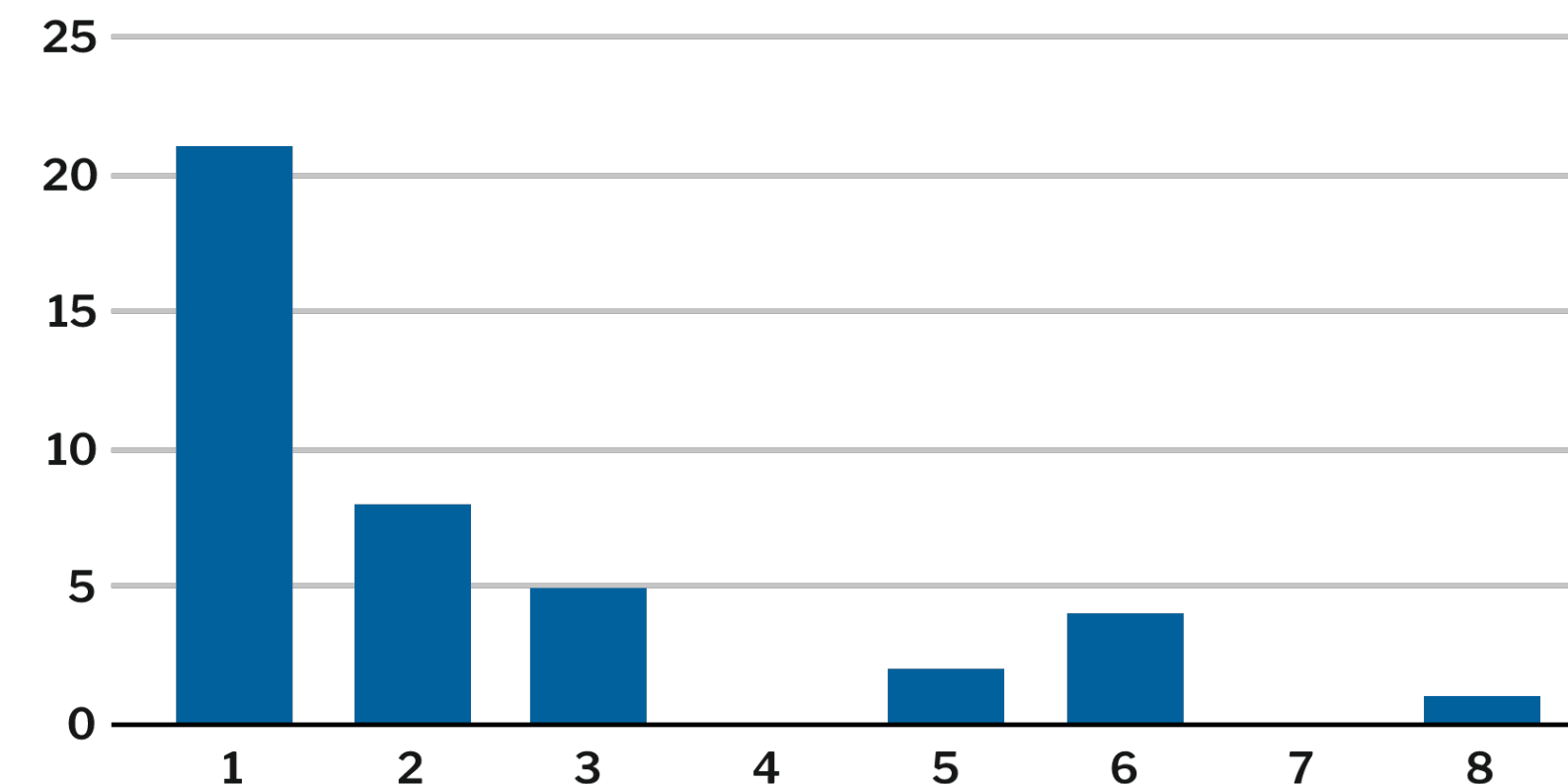
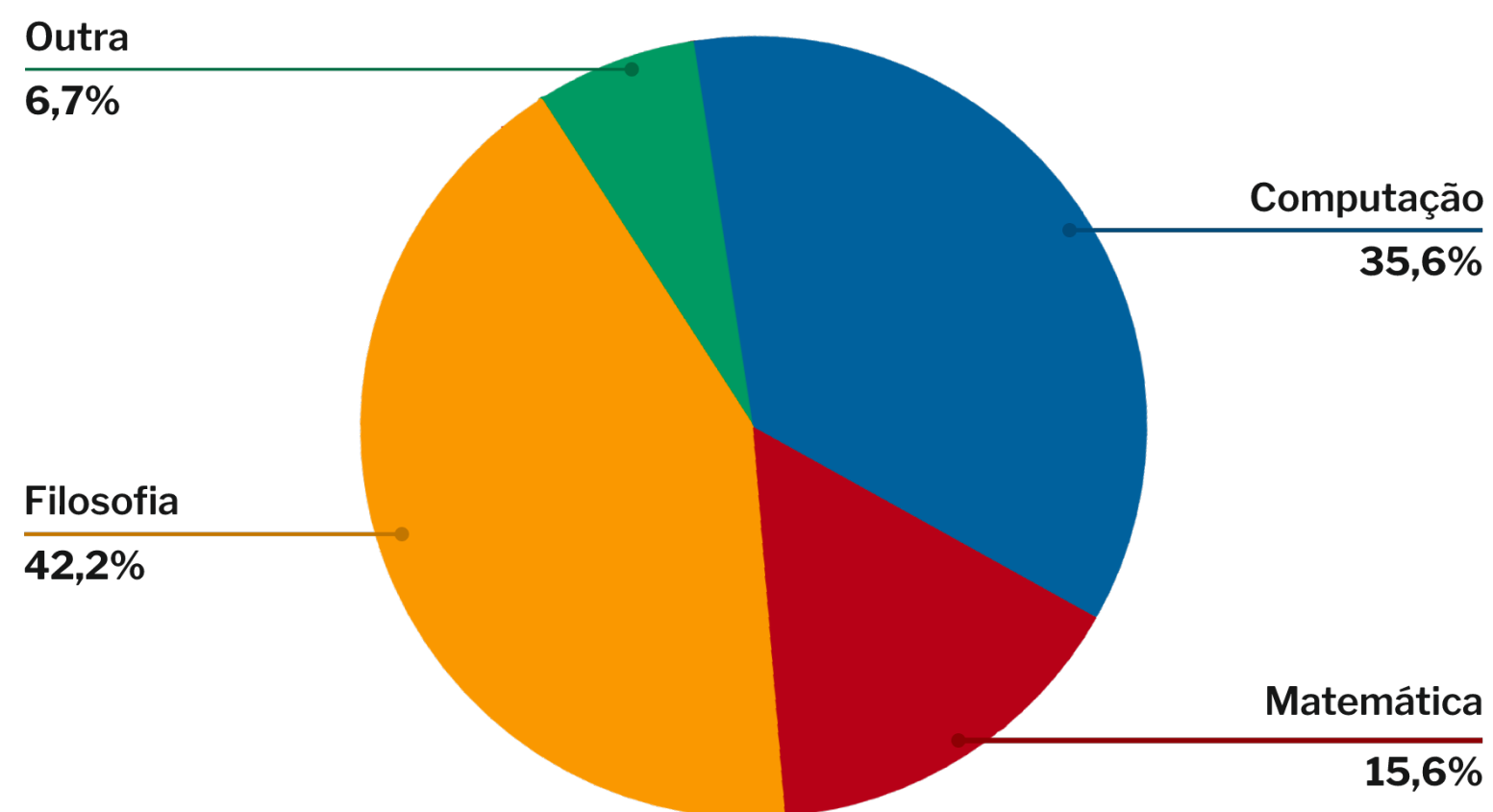
# A case study

Really important!

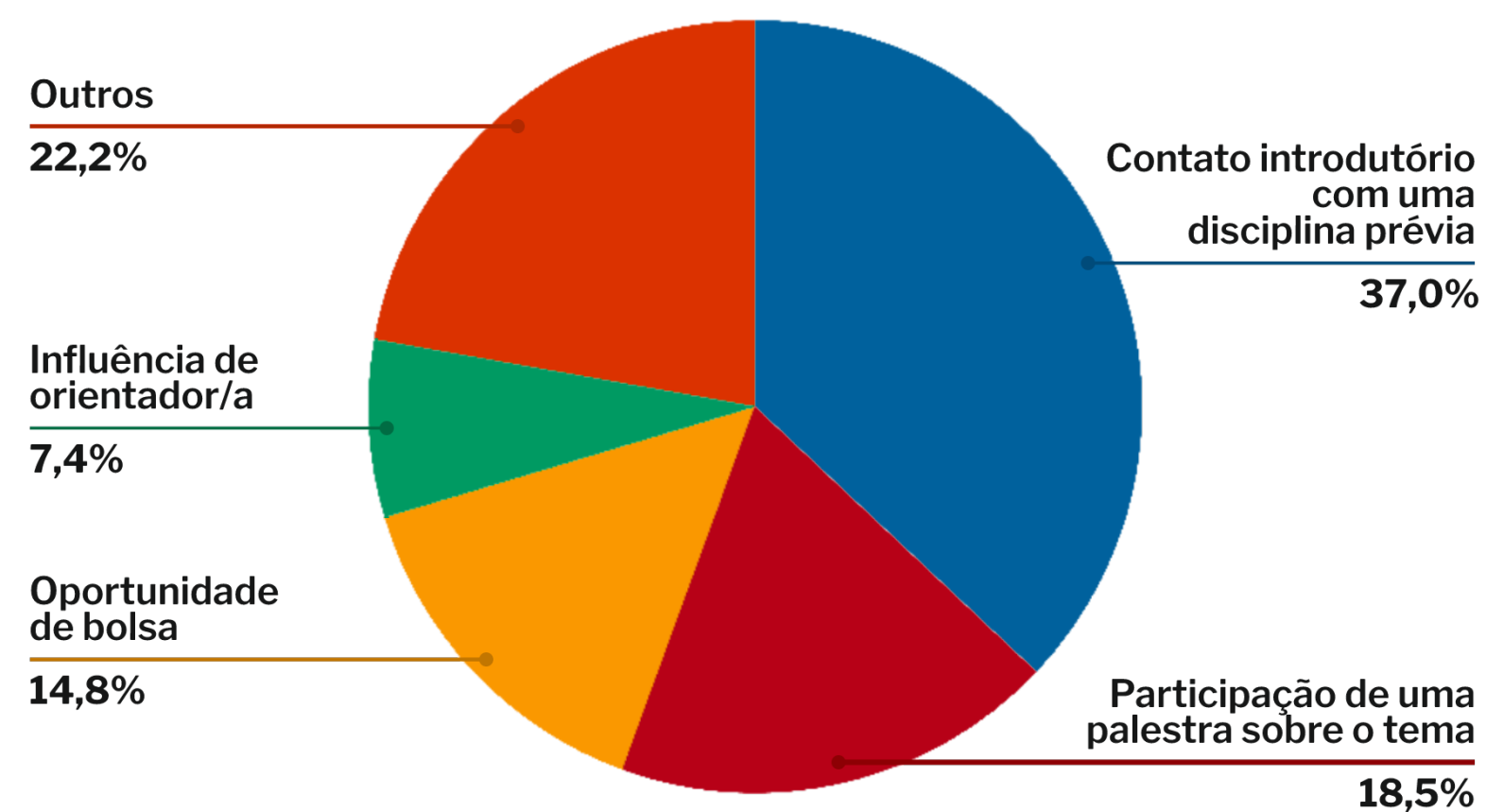


1st contact

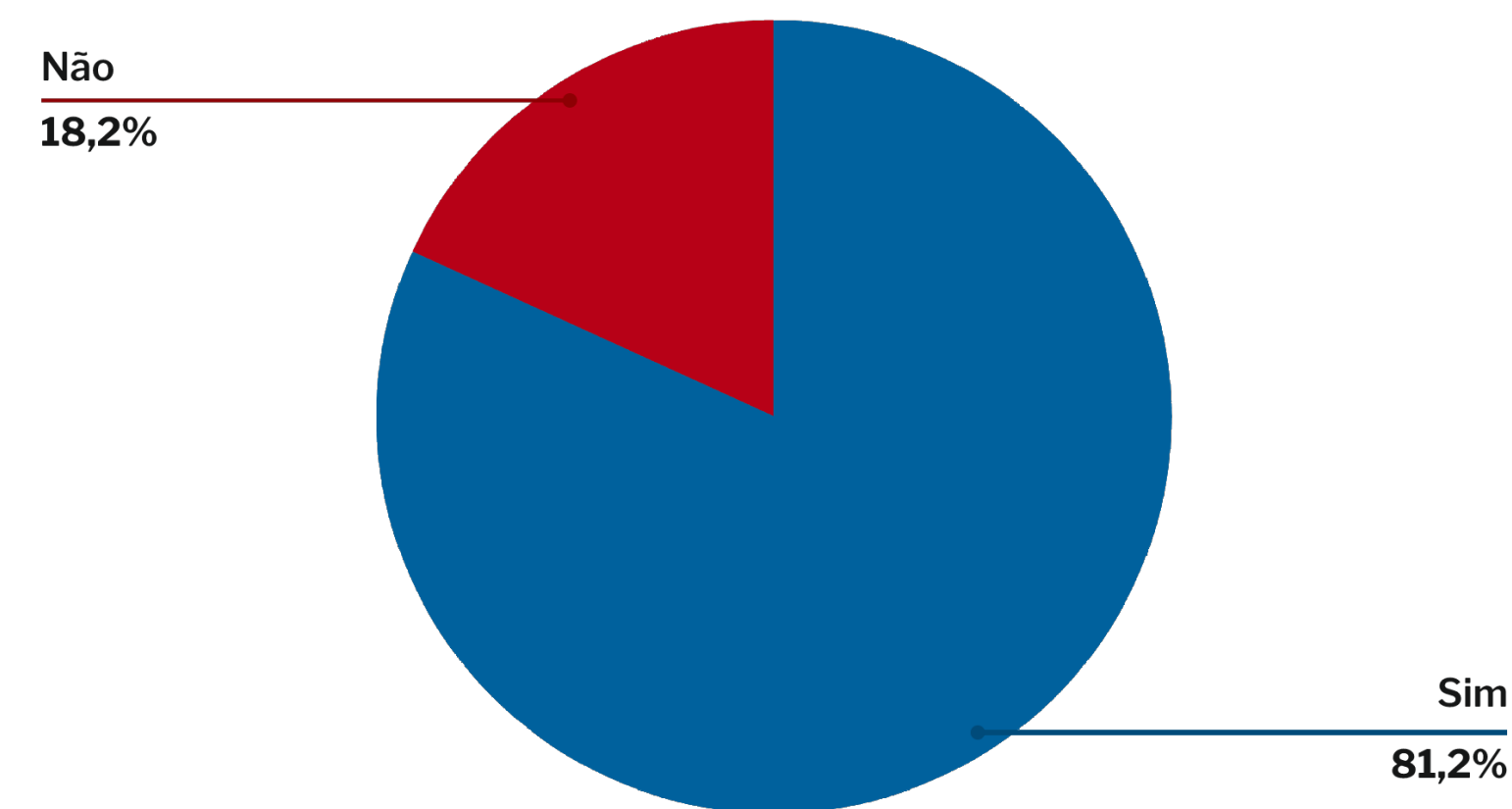
### Area



### How?



### Will continue?



# Return to society

5

Actions  
Outreach!



Schools outreach:

- visit schools
- show your lab
- fairs
- olympics ...



# Return to society

Logic @ schools outreach!  
There is a lot we can do!

# 5

## Actions Outreach!



Logicomix

Fun activities on:

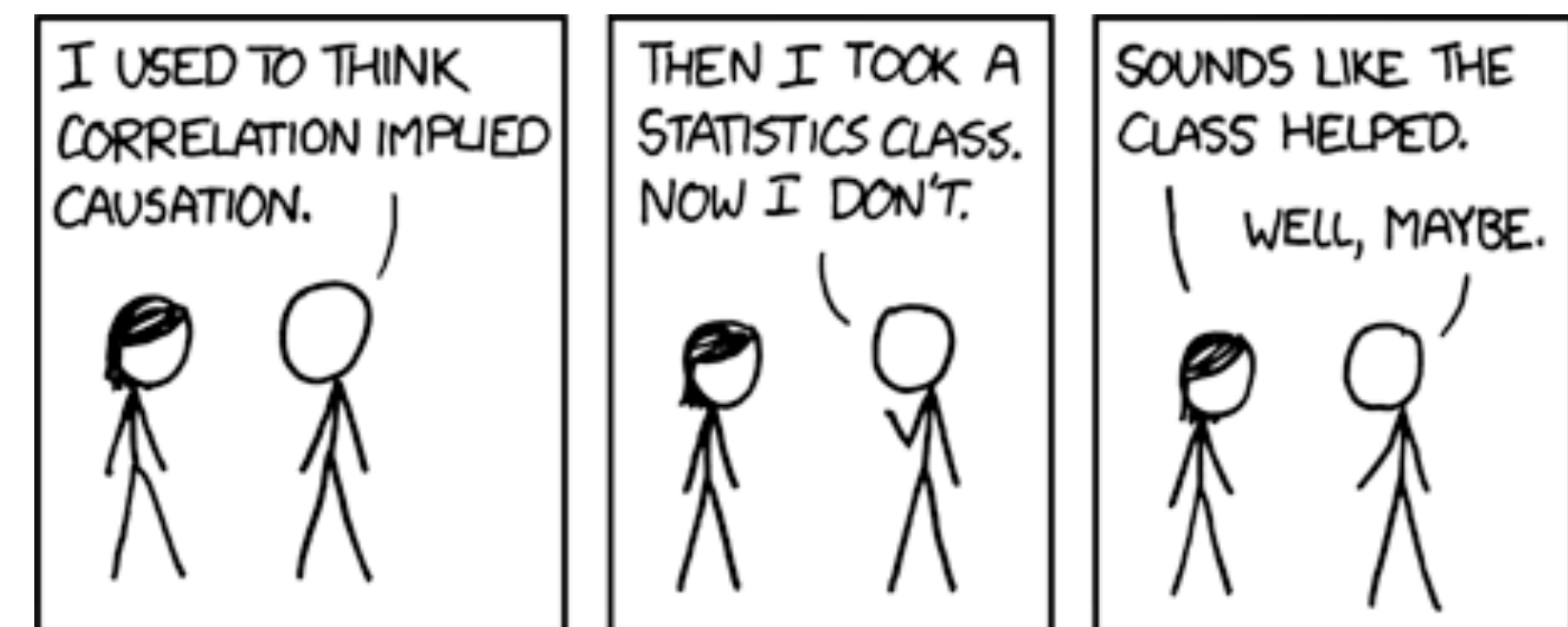
- Logical reasoning
- Fake news and fallacies
- Correlation vs causation...

thou shalt not commit logical fallacies

**appeal to emotion**  
Manipulating an emotional response in place of a valid or compelling argument.

A logical fallacy is a flaw in reasoning. Logical fallacies are like tricks or illusions of thought, and they're often very sneakily used by politicians and the media to fool people. Don't be fooled! This website has been designed to help you identify and call out dodgy logic wherever it may raise its ugly, incoherent head. Roll over the icons above and click for examples. If you see someone committing a fallacy, link them to it e.g. [yourlogicalfallacyis.com/strawman](https://yourlogicalfallacyis.com/strawman)

<https://yourlogicalfallacyis.com/>



<https://xkcd.com/>



# 5

## Actions Outreach!



If you are an **academic**:

- Promote **outreach** in your university
- Participate on other's **outreach projects**
- Go to schools, talk to the **community**

# 5

## Actions Outreach!



If you are an **academic**:

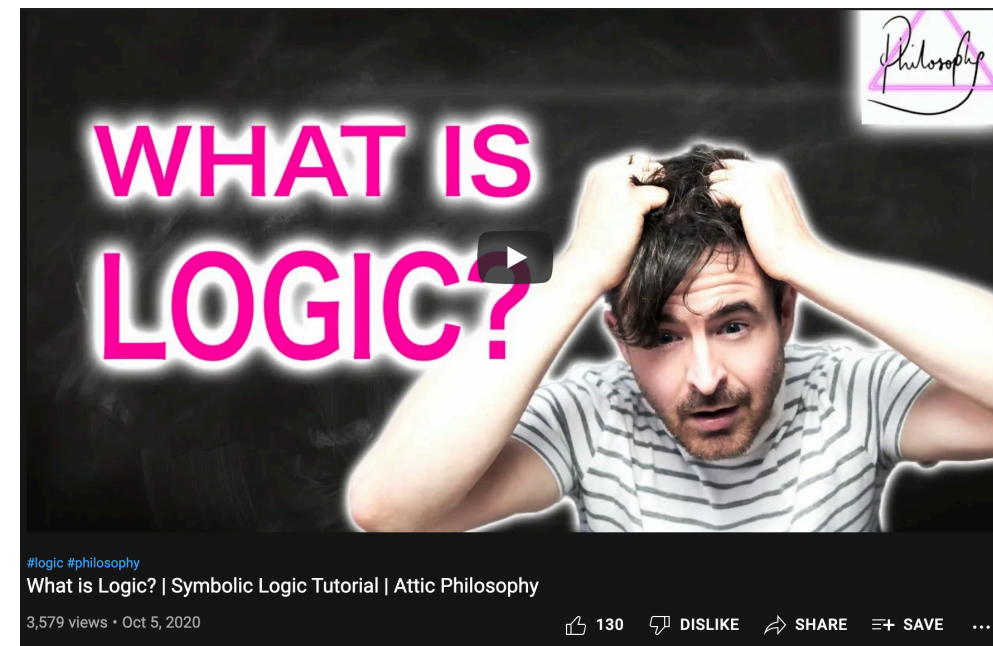
- Promote **outreach** in your university
- Participate on other's **outreach projects**
- Go to schools, talk to the **community**

If you are a **student**:

- **Pressure** your university for outreach activities
- Volunteer on **outreach projects**
- **Share** your experience, talk about your path
- **Inspire** others!

6  
Actions  
Public  
engagement!

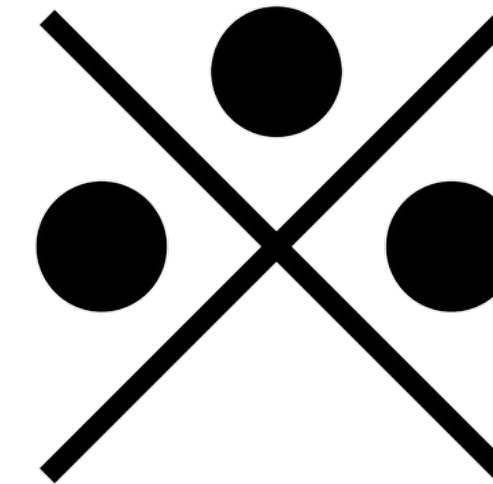
# Concrete actions



Attic Philosophy  
Mark Jago



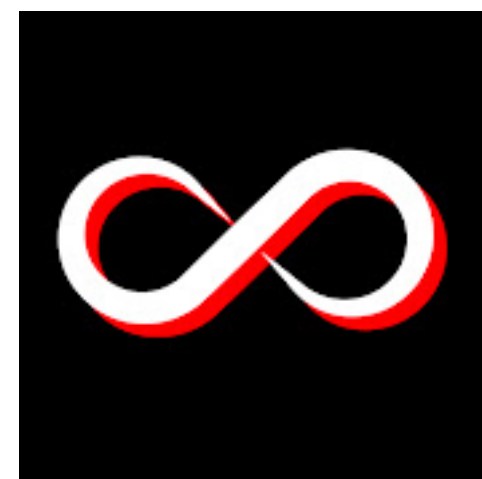
Dr. Logic  
Sara Uckelman



Lógica MX  
María Martínez-Ordaz et al.



Coletivo Lógica Viva  
Marcos Silva et al.



Canal Ad Infinitum  
Rodrigo Freire & Edgar Almeida



The Nordic Online Logic Seminar



The difficult art of communicating logic!!

All we need is logic!!



Logic is the future!

Logic is the answer!

Let's make it so!

# Thanks! Questions?



Credit: [www](http://www)