



Carlo Ghezzi

DEIB-Politecnico di Milano

# Being a researcher

---

This course: why? what?

# Why this course

---

- Almost any student gets at some point exposed to research
- Doing research can be an option for your future
- The world of research is pretty much unknown, and there are many misconceptions
- A systematic introduction to research is seldom offered
- Bits and bytes emerge informally

# My approach

---

- I will tell you what I wish somebody experienced would have told me about research 40+ years ago, to help and guide me in my progress in the research world
- I will share hopefully useful wisdom gained through pain, experience and through lessons learned from many gifted researchers met in the journey
- I will try to be as honest as I can to distinguish between general principles, area-specific facts, and subjective, personal considerations

# Outline

---

- What is research and why do we do it in our society
- The research process. Does a scientific method exist? What did philosophers and scientists say over time?
- How does research progress in practice?
- Publication and research products in general
- Evaluation (of research, of researchers). From principles to existing metrics
- The researcher's progress
- Research ethics

# Last, but not least

---

- Excite you about the wonderful world of research
- After 40+ years of being an active researcher, I still believe that opting for academia was the best possible choice for my professional life

## Side remark

---

- This course is a prototype. It will be "consolidated" in a MOOC
- Take advantage of this by being interactive