

Training scientists in the era of AI?

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What does AI mean to scientists?

- ✓ **A tool for everyday work**
- ✓ **A companion to interact with**
- ✓ **A tool for scientific research**
- ✓ **A subject of research itself**

Any concerns?

→ **Impacting how you do science and what it means to be a scientist!**

SECTION
01

In the past

SECTION
02

**Changing
landscape**

SECTION
03

**Which
training?**

SECTION

01

In the past

The trend toward digitalization in science

Quantitative data analysis

Keyword search → Google scholar

Qualitative data analysis
→ Text mining

New scientific fields
→ Bio-informatics

SECTION

01

In the past

Which skills for scientists?

Statistics

Digital skills
as a user

Programming &
Data management

SECTION

02

Changing
landscape

AI in perspective ...

AI Assistant

AI Agent

Agentic AI

AI Scientist?

AI Agency?

AI impacting Science?



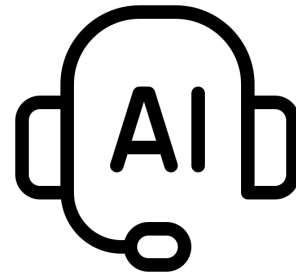
Accelerating
scientific
discovery?

→ Along the
chain of scientific
discovery



To do science
differently?

→ Questioning
existing methods
& practices



AI assistant?

→ Human
agency at the
front line!



AI Scientist?

→ Authorship?
→ Automated
scientific
production?

Changing landscape

SECTION

03

Which
training?

Beyond technical skills!

Ability to formulate research questions independently

Capacity to capture scientific value

Out-of-the-box thinking

Ability to create value from social interaction

Most fundamentally ...



**Value of scientific
discovery**

**Does it remain
intact?**



Research integrity

**To be
reformulated?**



Being a scientist

**Driven by inspiration
and creativity!**

Which training?

**The voice of
the AI
generation
must be heard!**

Icons made by smartline



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