

# The Alan Turing Institute

## Impact story

### Changing the culture of data science

See the full story and others like it at [turing.ac.uk/impact](https://turing.ac.uk/impact)

The Turing Way is an online handbook – and global community – dedicated to fostering gold-standard reproducible research. It's a cultural movement with the potential to transform data science.

- There is a crisis of reproducibility in science.
- 'Publish-or-perish' incentives and excessive data secrecy stifles progress and wastes resources: siloed science is slow science.
- The Turing Way (TW) is an evolving online 'handbook' on how to conduct world-leading, reproducible research in academic data science and AI with the goal of making reproducible research "too easy not to do".
- The book deals not only with the 'how' of things, but also the 'why' – the ethos and long-term benefits of reproducible research.
- The TW is also a flourishing global community of research engineers, data librarians, industry professionals and research experts dedicated to capturing and sharing research best-practise, tools and data.
- The team is collaborating on workshops with the people behind Binder, a key research platform that enables highly sharable research.
- Through community contributions, the handbook will grow into a 'How-To Guide for Data Science' covering areas including research design, collaboration, visualising results, the ethics of data science, and more.

#### Impact

- The Turing Way is shared through its growing, global community of like-minded expert advocates.
- It shines a light on a broken publishing system that works against sharing and makes research less effective.
- It represents the Institute's commitment to changing data science for the better.

**"The reuse of other people's data provides useful insights for new research questions and products, and drives new scientific discoveries."**

Susanna-Assunta Sansone,  
Associate Professor in Data Readiness  
at the University of Oxford



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Illustration by Scriberia highlighting an important Turing Way principle. Produced during a 'book dash' – an intense day of collaborative work.