



The
Alan Turing
Institute

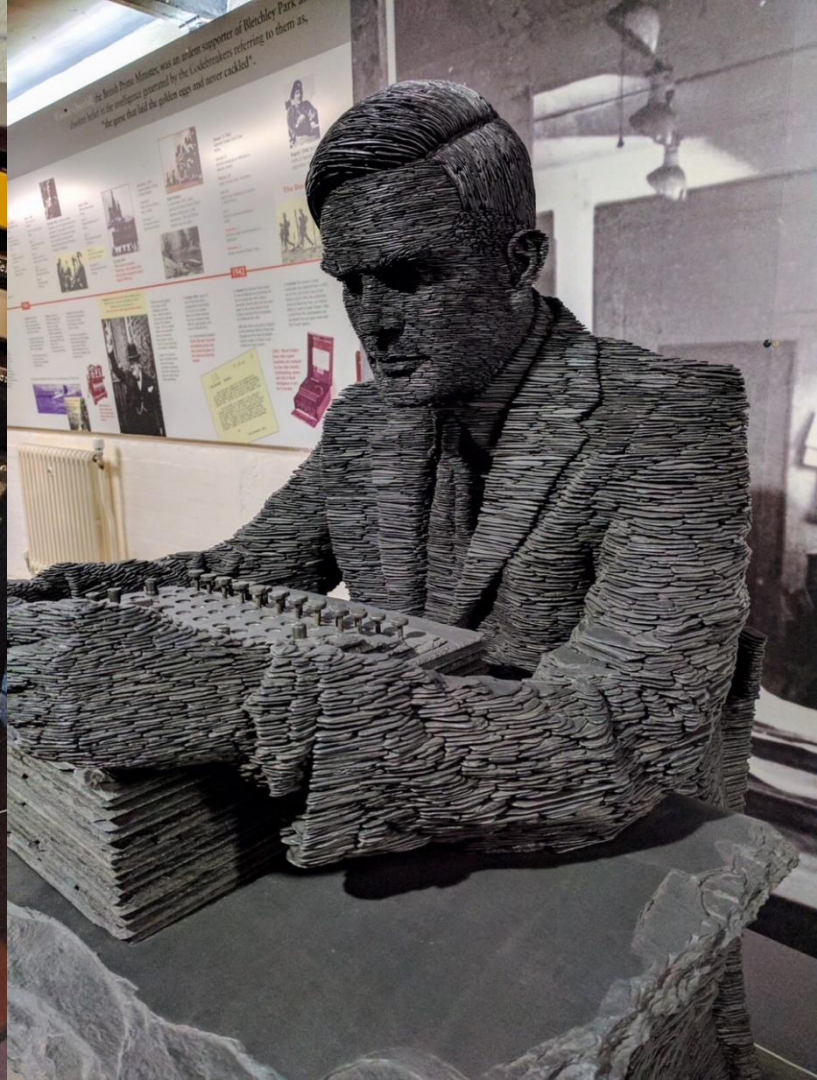
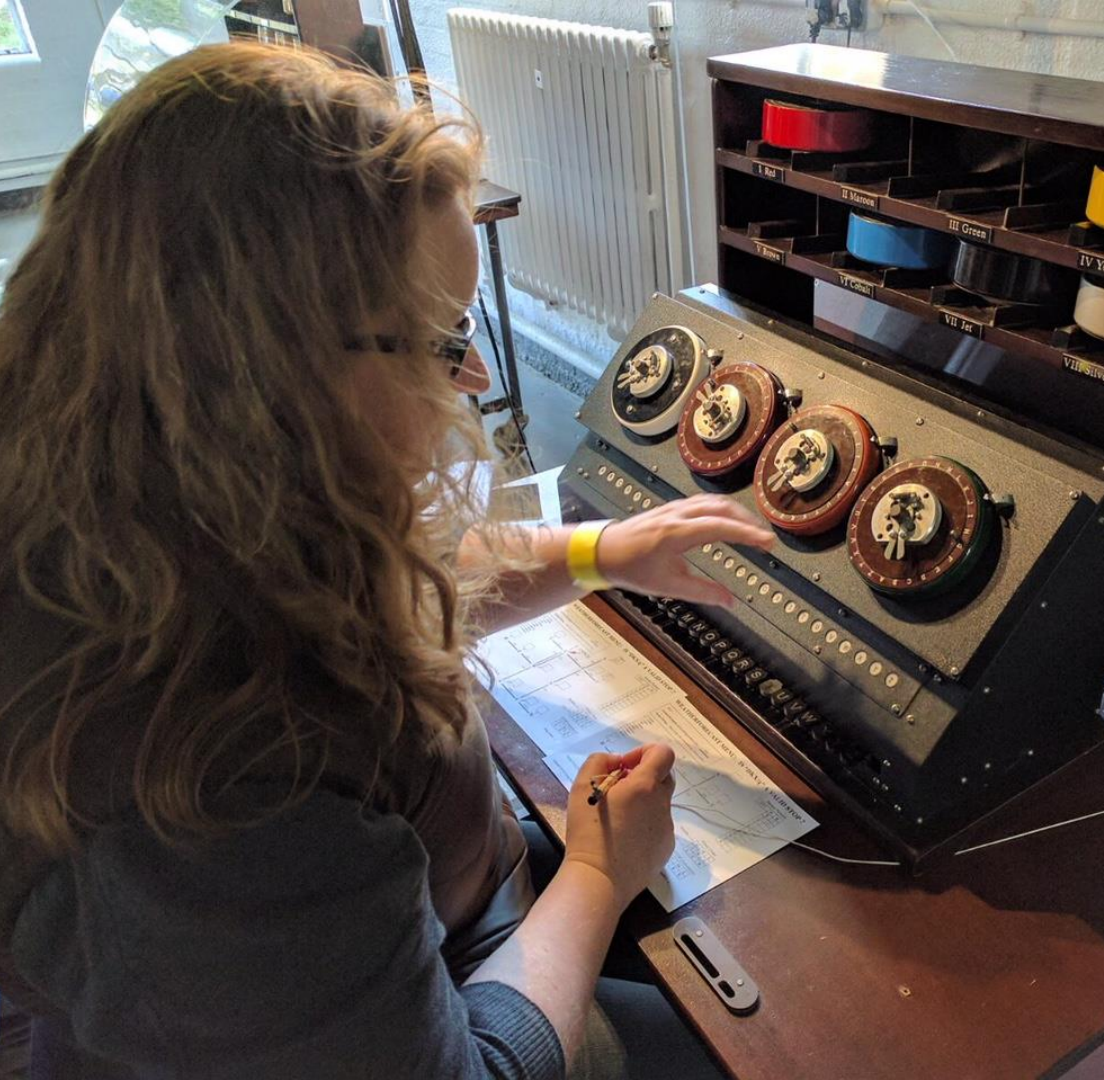
Alan Turing: Life and Legacy

Kirstie Whitaker

Research fellow, Turing Institute

Senior research associate, Dept Psychiatry, University of Cambridge

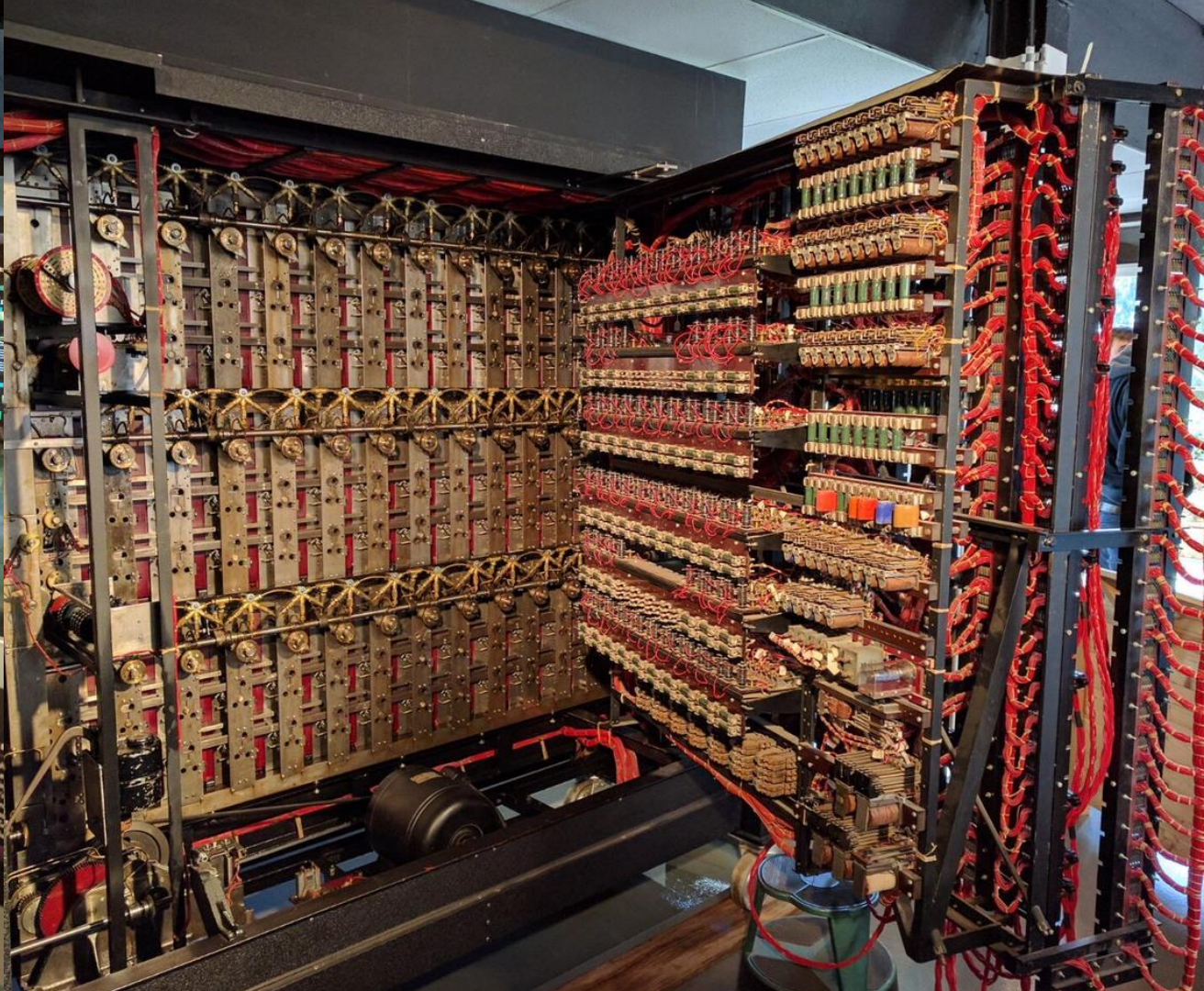
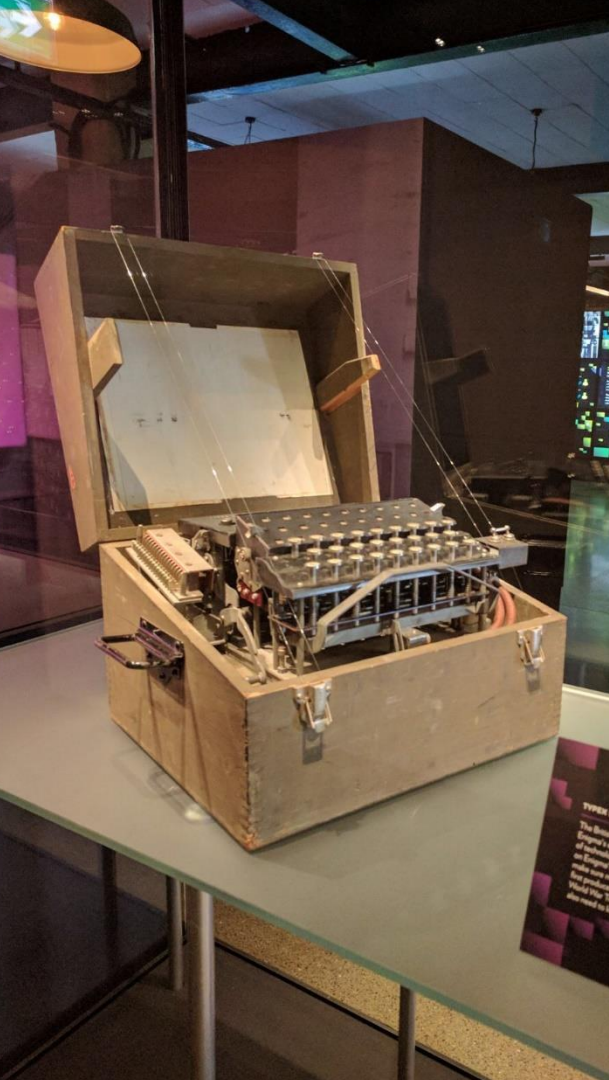




- 1st class honours in Mathematics from University of Cambridge 1931 – 1934
- Elected fellow of King's College, Cambridge in 1935
- Worked with Government Code and Cypher School (GC&CS) from 1938 – 1945 at Bletchley Park
- Reader at University of Manchester 1948 – 1952



Image credits: NPL / Science Museum





MIND

A QUARTERLY REVIEW

OF

PSYCHOLOGY AND PHILOSOPHY

EDITED BY

PROF. GILBERT RYLE

WITH THE CO-OPERATION OF PROF. SIR F. C. BARTLETT AND PROF. C. D. BR

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3.1 The Imitation Game

I propose to consider the question, "Can machines think?"* This should begin with definitions of the meaning of the terms "machine" and "think". The definitions might be framed so as to reflect so far as possible the normal use of the words, but this attitude is dangerous. If the meaning of the words "machine" and "think" are to be found by examining how they are commonly used it is difficult to escape the conclusion that the meaning and the answer to the question, "Can machines think?" is to be sought in a statistical survey such as a Gallup poll. But this is absurd. Instead of attempting such a definition I shall replace the question by

The Chemical Basis of Morphogenesis

A. M. Turing

Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences,
Vol. 237, No. 641 (Aug. 14, 1952), 37-72.

Stable URL:

<http://links.jstor.org/sici?sici=0080-4622%2819520814%29237%3A641%3C37%3ATCBOM%3E2.0.CO%3B2-I>

Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences is currently published by
The Royal Society.



- Arrested for gross indecency in 1952
- 1 year of hormonal treatment designed to reduce libido
- Died by suicide in 1954
- Pardoned in 2014 (after 5 years of campaigning)
- All other homosexual men convicted of similar indecency offences pardoned in 2017 under “Alan Turing Law”

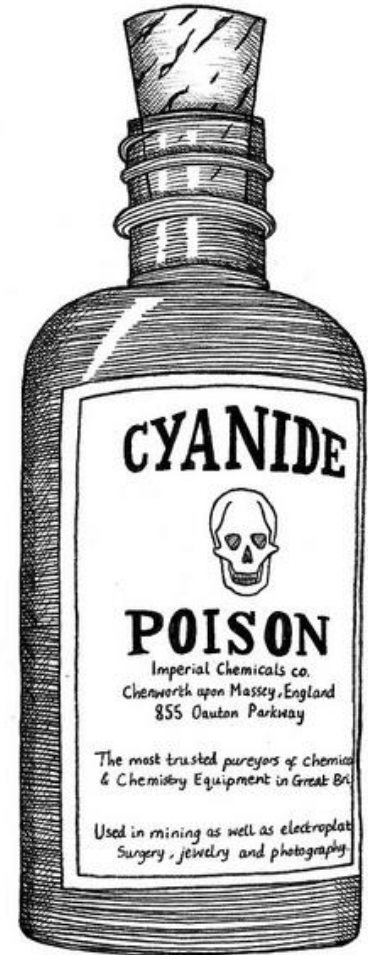


Image credits: Krystian Griffiths, Flickr

Alan Turing is often portrayed as an isolated genius, even a borderline Asperger's loner. This traditional depiction is, perhaps, a weak reflection of homophobia of recent decades. But read about his feelings for Morcom, his letters and the correspondence of those close to him and you obtain a more complete portrait. Far from being the insular genius of popular belief, Turing could be warm and gregarious, though he did not suffer fools gladly and had an original take on the way he lived his life as much as he conducted his science.

DATA SCIENCE SKILLSET

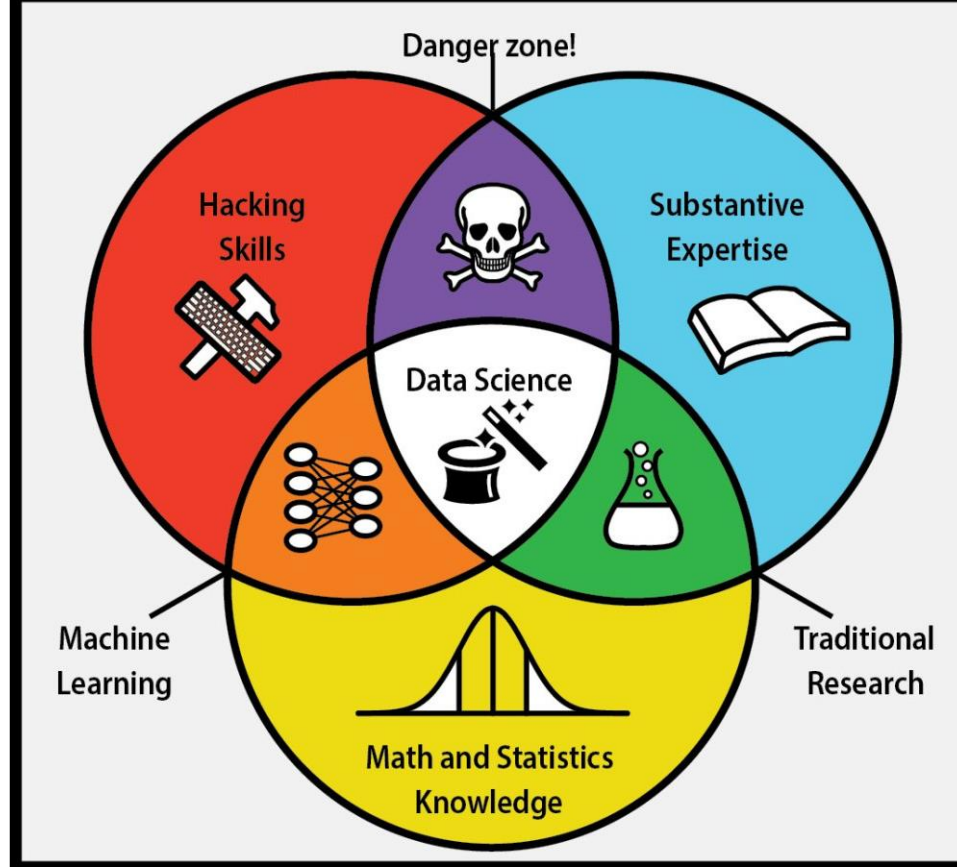
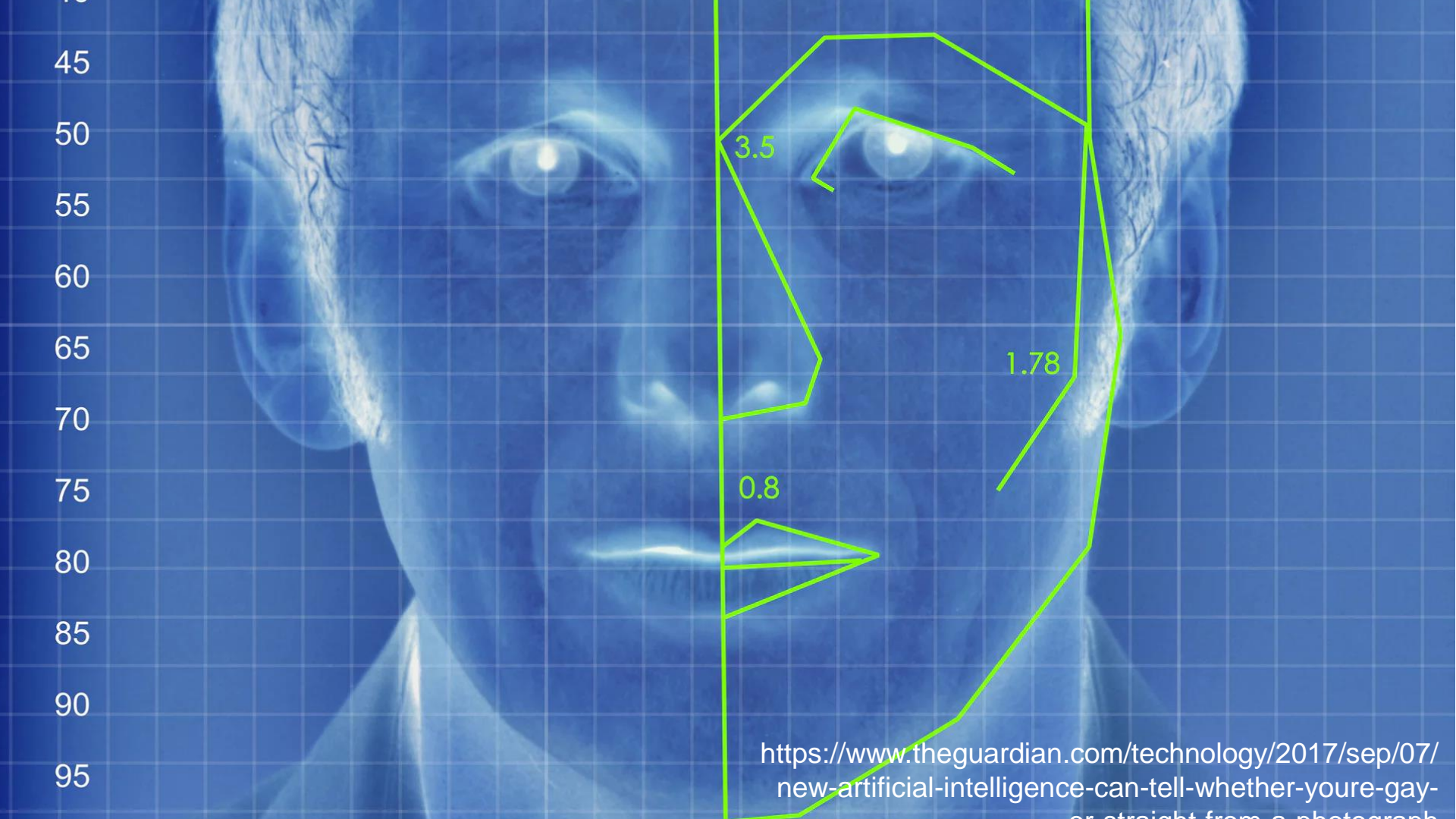


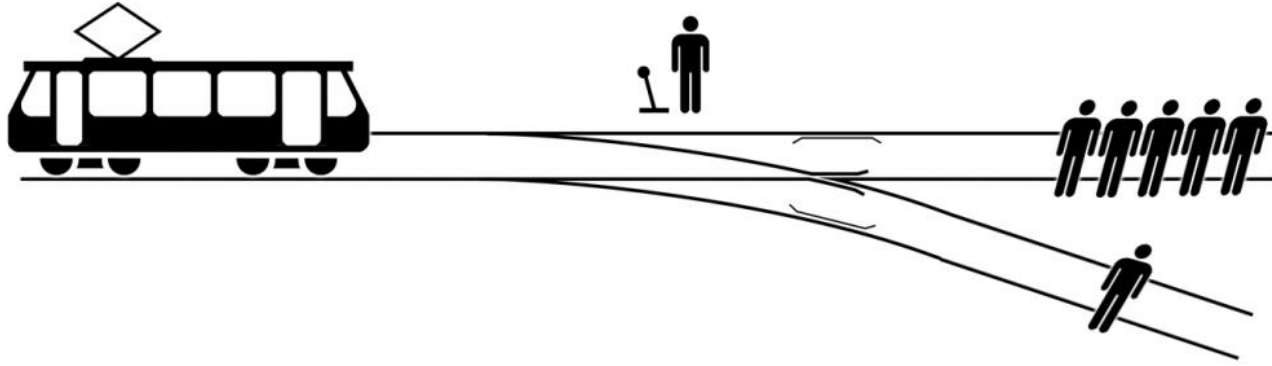
Image courtesy of Natalia Blienko via Berkeley Science Review







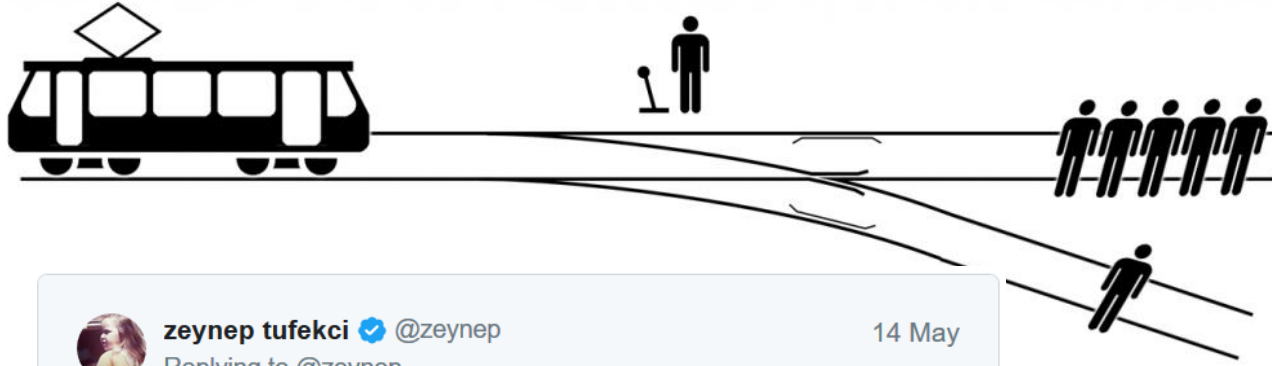
[https://www.theguardian.com/technology/2017/sep/07/
new-artificial-intelligence-can-tell-whether-youre-gay-
or-straight-from-a-photograph](https://www.theguardian.com/technology/2017/sep/07/new-artificial-intelligence-can-tell-whether-youre-gay-or-straight-from-a-photograph)



<https://www.turing.ac.uk/media/opinion/ais-trolley-problem-problem>

<https://twitter.com/zeynep/status/863566146246766596>

<https://xkcd.com/1897>



zeynep tufekci  @zeynep


14 May

Replying to @zeynep

Open source has benefits, but it's not necessarily more secure.
Even if open source, no cheap way to security.

[twitter.com/Thurguston1/st...](https://twitter.com/Thurguston1/status/863566146246766596)



zeynep tufekci 

@zeynep



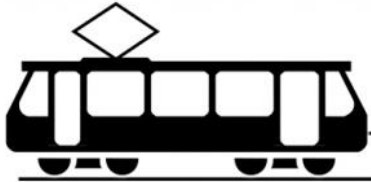
Let me ask: whose responsibility is it to structure things so that autonomous cars don't have ransomware? "\$100K or we go down the cliff?"

01:26 - 14 May 2017

 506  420 people are talking about this



ring.ac.uk/media/opinion/ais-trolley-problem-problem
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@zeynep



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WHETHER OR NOT THIS IMAGE CONTAINS A STOP SIGN:



NO

YES

ANSWER QUICKLY—OUR SELF-DRIVING
CAR IS ALMOST AT THE INTERSECTION.

SO MUCH OF "AI" IS JUST FIGURING OUT WAYS
TO OFFLOAD WORK ONTO RANDOM STRANGERS.

<https://www.turing.ac.uk/media/opinion/ais-trolley-problem-problem>

<https://twitter.com/zeynep/status/863566146246766596>

<https://xkcd.com/1897>

Founding the Institute

“We will found The Alan Turing Institute to ensure Britain leads the way again in the use of big data and algorithm research”

George Osborne, Chancellor of the Exchequer
Budget Speech, March 2014

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Institute**

EPSRC

Engineering and Physical Sciences
Research Council

Network of industry,
charity, government
partners

Network of
university members

Strategic
government
investment

The goals of the Institute

Innovate and develop world-class research in data science and artificial intelligence

Apply our data science research to real-world problems, supporting the creation of new products, services, and jobs

Train the next generation of data science and artificial intelligence leaders

Advising policy-makers and shaping the public conversation around data

Our university network



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of EDINBURGH



UNIVERSITY OF
BIRMINGHAM



UNIVERSITY OF LEEDS



The University of Manchester



Newcastle
University
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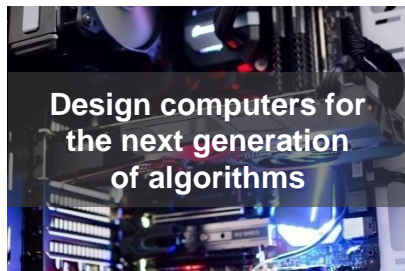
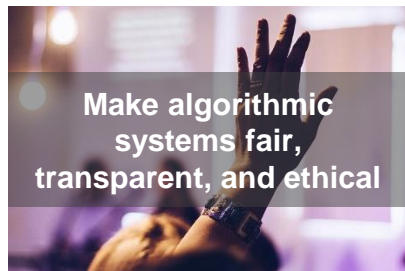


The Institute's partners and collaborators



Challenges

Advance data science and artificial intelligence to...





Lewis Hou
@fiddleBrain

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Privilege to be part of
[@STEMGamechange](#) & meet so many
brilliant folks making [#STEM](#) more
diverse & inclusive! 🎉 Lots of actions,
reflections & collaborations moving
forward - this is just the start! 🙌🙏
Thanks to all organisers, our evidence-
based [#scicomm](#) team &
[#STEMGamechangers](#)!



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Out and About in STEM

Legal information to support global
mobility of LGBT+ individuals in STEM





Sometimes it is the people no one
imagines anything of who do the
things that no-one can imagine

— *Alan Turing* —

AZ QUOTES

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Thank you

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@kirstie_j
@turinginst