5 years of being at the Turing

Aside from being handy for the trains to Europe…☺

Structure&Resources

13 University partners
5+ strategic partners (industry&government)
Core grant from UKRI/National + funds from partners:
projects/programs/collaborations + other grants

public outreach events&interest groups

Research staff, PhD student/interns
Research Engineers <
Academic fellows (like me - part time seconded or visit)
Data Study Groups <

Cloud resource/national data too

Interactions & resources - my experience

- Privacy-preserving data analysis
- Data science and digital humanities
- Urban analytics
- Fairness, transparency, privacy
- Data Ethics Group
- Low-dimensional structure in data
- Protocol governance: Blockchain & beyond
- Sampling algorithms for data analytics

- Data!
- PhDs
- Papers
- Projects
- Proposals
- Partnerships
- REG
- Feedback
- Fun

Project #1 Maru - Secure Enclaves for AI

- **Funded by D&S Program**
- **Partner with Imperial (not a turing uni then) & Intel**
- **Customer: NCSC - committed&used (tested) code from repo!**
- **software and papers outputs**
- **Influenced design of "Safe Haven" (use for DECOVID!)**
- **intellectual success - liaison via MSR Cambridge**
- **partial failure (sgx;spectre/meltdown)…**
- **followup influence (ARM & RISC-V enclave support different)…**
- **Good example of convening power of Turing**

Project #2 - Trustworthy Digital Identity Systems

- **Funded by Gates Foundation at Turing**
- **partners in World Bank, ID4D, Mosip etc**
- **just closed call for mini-projects (many good submissions!)**
- **redirected some effort to support pandemic work on**
- **secure tracing apps - https://arxiv.org/abs/2004.04059**
- **immunity certificate ideas - https://arxiv.org/abs/2005.11833**
- **safe haven and secure analytics for DECOVID&tracing…**
- **working on different models of "trustworthiness"**
- **UK is most challenging compared to many developing regions**
- **Great example of value of REG support…**

Research Mapping Exercise&Tools

- Topic Models – sourced from bio, project, papers etc

- PC/RIAC/University Liason expertise

- Crowd sourcing/democratic say

- Bibliometric Studies/NLP

- https://www.turing.ac.uk/research/research-areas

- Watch this space…(e.g. on slack channels...)

International Collaboration

- Many papers already collaborative
- And open source code
- and talks/conference events
- Startups (at least 2)
  - ikva.com & quine.sh
  - also ties with
  - https://cognitionx.com/

- really just getting going
- slightly stalled by pandemic (and brexit)
- Startup ideas
  - seed money competitions
  - free up IP
  - staff contract flexibility
  - local VC culture
- https://www.turing.ac.uk/collaborate-turing