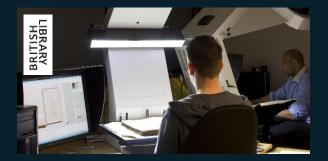
Radical Collaboration on the Living with Machines project

Ruth Ahnert, Federico Nanni, Daniel Wilson The Alan Turing Institute

The BL and The Alan Turing Institute





- The British Library has digitised millions of pages from its collections.
- The national institute for data science and artificial intelligence, **The Alan Turing Institute**, offers the expertise to harness this data to answer research questions at scale.

a data-driven history project/ a history-focused data science project.

The untapped depth of digital archives means that there is still much to learn about the human, social, and cultural consequences of the coming of the machine age (c.1780-1920).

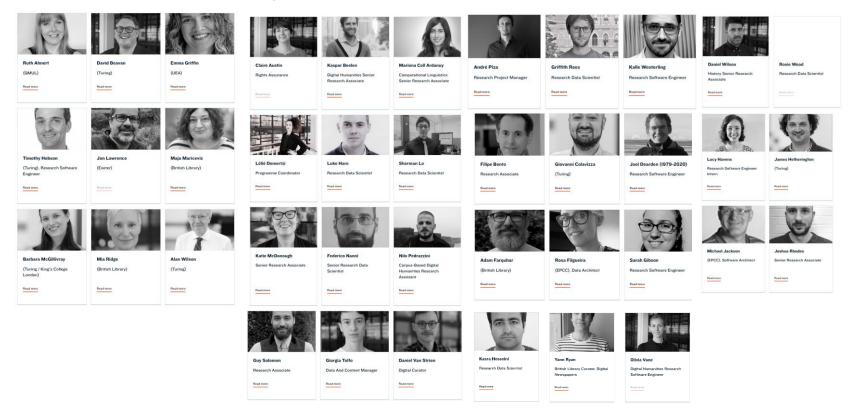
Objectives

We aim to:

- provide computational means of marshalling at scale the UK's growing number of digitised historical texts, and documents;
- develop innovative computational models, tools, code, and infrastructure that will be transferable to other research projects;
- facilitate new historical findings about the effects of mechanisation on the lives of ordinary people;
- deliver the above through radical collaboration.

The Living with Machines Team

Principal and Co-Investigators Project team



Challenges

- Beginning from a standing start
 - No pilot projects
 - Almost no prior inter-team collaborations
 - Some team members with no collaborative experience
 - Data not yet acquired or ingested
 - Infrastructure not in place
- Different professional and disciplinary norms:
 - Expectations and definitions of success
 - Research processes
 - Publication and dissemination cultures.

The Project Charter

- Increasing numbers of models for this practice: Scholars Lab, Colored Conventions Project, Stan Ruecker and Milena Radzikowska etc.
- Aim:
 - to create shared vision so that people knew what they were signing up for
 - lists a set of informal policies or values that we commit to abiding by, but also revisiting and revising where they are not working or require nuancing.
- Version 1: written by PI and Co-Is for hiring
- Version 2: revised once team on board
- Plan to revisit at intervals (Pandemic!)

How to brainstorm ideas together

- HypGen: hypothesis generation group
- IdeasLab
- NLP reading group
- Computer vision for digital heritage interest group
- Humanities & data science discussion group

How to embed best RSE practices

- Offering git-flow overviews
- Being available for informal support (Code & Coffe)
- Having milestones independent from conference deadlines
- Having regular stand-up meetings
- Coding together and reviewing each other's code (a lot)

How to recognise all contributions

Conceptualization Methodology Implementation Mariona Coll Ardanuy^{1,5} Federico Nanni Mariona Coll Ardanuy Daniel CS Wilson^{1,5} Federico Nanni¹ Kasra Hosseini Kasra Hosseini1 Mariona Coll Ardanuy Kaspar Beelen^{1,5} Reproducibility Interpretation **Historical Analysis** Kaspar Beelen Daniel CS Wilson Kasra Hosseini Federico Nanni Mariona Coll Ardanuy Katherine McDonough Katherine McDonough^{1,5} Kaspar Beelen Daniel CS Wilson Jon Lawrence Ruth Ahnert⁵ Jon Lawrence⁴ Giorgia Tolfo² **Data Curation** Writing and Editing Annotation Kaspar Beelen Giorgia Tolfo Mariona Coll Ardanuy Mariona Coll Ardanuy Ruth Ahnert Federico Nanni Federico Nanni Kaspar Beelen Ruth Ahnert Giorgia Tolfo Mariona Coll Ardanuy Kaspar Beelen Jon Lawrence Kasra Hosseini Katherine McDonough Jon Lawrence Federico Nanni Katherine McDonough Barbara McGillivray^{1,3} Daniel CS Wilson Daniel CS Wilson Supervision **Project Management**

Barbara McGillivray Ruth Ahnert Barbara McGillivray Ruth Ahnert

Mariona Coll Ardanuy

To know more: https://livingwithmachines.ac.uk/highlighting-authors-contributions-and-interdisciplinary-collaborations-in-living-with-machines/