Exchanging Research Practices through Open Source Communities of Practice





Malvika Sharan (Pronouns: she/her)





An Open Source guide on Data Science.

We involve and supports a diverse community to make data science reproducible, ethical, collaborative and inclusive for everyone.

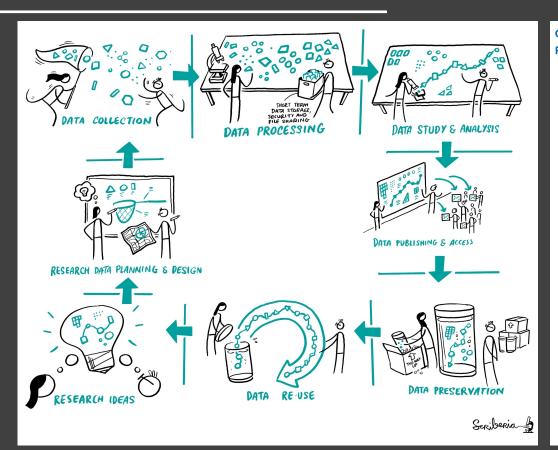
Community-driven project, led by Kirstie Whitaker and me. Thanks to all our contributors and users.

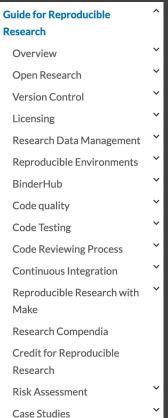
The Alan Turing Institute

The national institute for data science and artificial intelligence



Guide for Reproducible Research

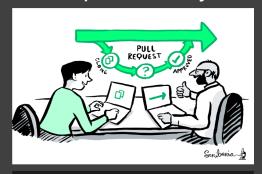




The Turing Way Guides



Reproducibility



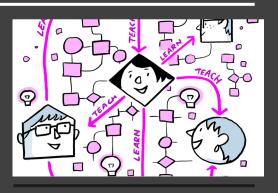
Collaboration



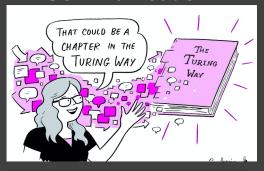
Project Design



Ethical Research



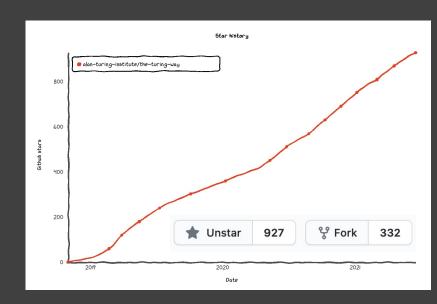
Communication



Community Handbook

Project Status

- 2.5 years, >160 pages
- Community resources, events, guidance, templates, training
- 270 direct GitHub contributors and thousands of users
- Cited & reused by 30+ peerreviewed articles & resources















Book:

the-turing-way.netlify.app

GitHub:

github.com/alan-turing-institute/the-turing-way

Twitter:

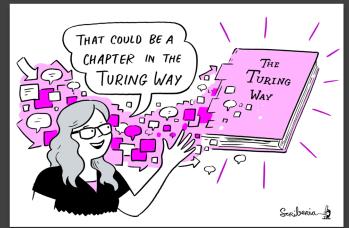
twitter.com/turingway

Email:

theturingway@gmail.com

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A Book



A Community



An Open Source Project

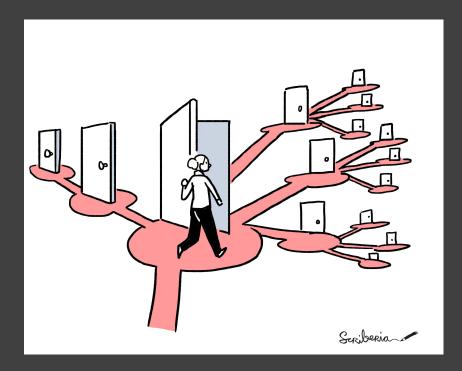


A Culture of Collaboration



Terminology

- Open Source
- Community of Practice (CoP)
- Exchanging Research Practices



An open source project

 Everyone can freely read, reuse, distribute, modify and advance.

 Framework for collaboration, peer production and project sustainability.



Community

A social unit of people who share common values and mission.

Community of Practice

A social unit of people who share common values and mission – who want to gain knowledge and expertise through informal interaction

Open Source Community of Practice

A social unit of people who share common values and mission – who want to gain knowledge and expertise through informal interaction – using open source framework for collaboration, peer production and project sustainability.



Toward a UNESCO Recommendation on Open Science: Canadian Commission for UNESCO By Ella Chan, Dick Bourgeois-Doyle, Michael Donaldson, and Eleanor Haine-BennettOttawa, Canada, April 2020



EVOLVING TOWARDS AN ERA OF OPEN SCIENCE





A mentoring and training program that enables people, whether newcomers or long-time practitioners, to become **Open Science ambassadors**.

Community-driven project, led by Yo Yehudi, Bérénice Batut, Emmy Tsang and me. Thanks to mentors, experts and cohort members.

Program Structure



16-week long mentorship and cohort-based training

Cohort-based training

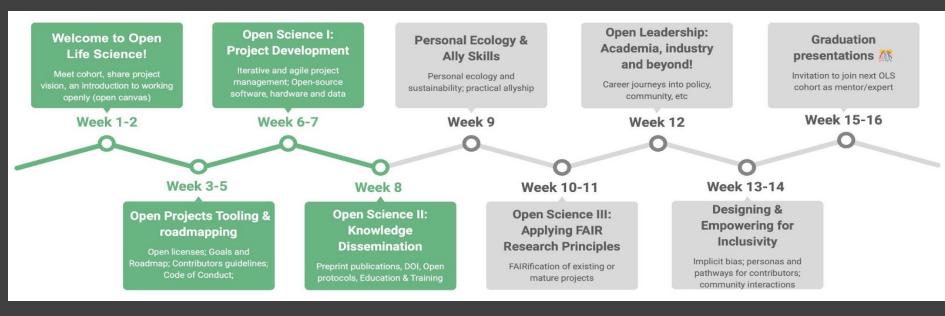
1 on 1 mentoring

Hands on practice





Program Structure







Open leadership is a set of practices and skills people can use and build projects that allows them to collaborate within inclusive communities.

Design for Collaboration





Your work is clear, authentic and widely accessible



Sharing

Your work can be adapted, reproduced, and built upon



Participation & Inclusion

Creates a shared ownership that inspires contributions



moz://a Open Leadership Program

Project Status

- 3 Cohorts, 91 different projects
- 257 volunteers as project leads, mentors, experts, supporters
- 6 continents, 45 countries with diverse social-cultural contexts
- 17 partnering organisations including *The Turing Way*





A mentoring & training program for Open Science Ambassadors Special call under: OLS-4 for Turing

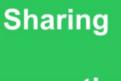
Application period



Cohort announcement

mid-August 2021

OLS-4 Timeline



Connecting

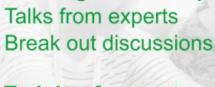
Empowering



Email: team@openlifesci.org

@openlifesci @turingway

1:1 mentoring Training calls on Open Science





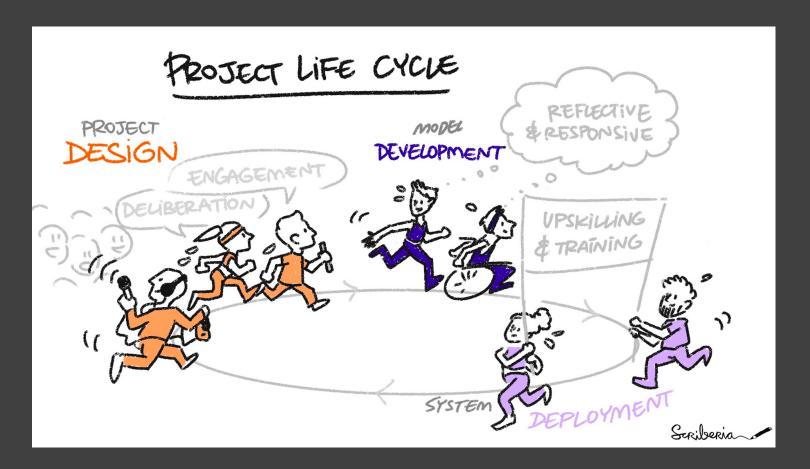
OLS-3 period: February to May 2021 Apply individually or in team to join the cohort

Visit our website: openlifesci.org

Training for mentors

OLS-4 Cohort begins mid-September 2021

OLS-4 Cohort ends January 2022



CC-BY 4.0, https://the-turing-way.netlify.app/ethical-research/ethical-research.html, DOI: 10.5281/zenodo.5017713 Christopher Burr | Automating Ethics. (2021, February 19https://chrisdburr.github.io/blog/automating-ethics/automating-ethics/

Acknowledgements:

The Turing Way community & collaborators

- Kirstie Whitaker, The Alan Turing Institutes
- Book: the-turing-way.netlify.com
- Ways to connect: bit.ly/turingway

Open Life Science community & collaborators

- Website: openlifesci.org
- OLS-4 Webinars: June 30 and July 9, 2021

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