# Title

Open Science Tools - authoring and publishing workflows for collaborative scientific writing

# Responsible Partner

ETH Zurich

# Overview

As the expectations of researchers increase, publishing reproducible scientific articles becomes essential. However, choosing tools for these tasks can be difficult. This course aims to guide researchers through these challenges by introducing a workflow that utilizes Git, GitHub, and the Quarto scientific and technical publishing system for collaborative scientific writing.

# Learning objectives

1. Learn to use the Quarto file format and the RStudio IDE visual editing mode to produce scholarly documents with citations, footnotes, cross-references, figures, and tables.
2. Interact with Git version control and GitHub through the RStudio IDE.
3. Collaborate with other researchers using the GitHub issue tracker and project management board to organize tasks and streamline communication.
4. Publish a public website using GitHub Pages to share research with a broader audience.

# Duration

* 4 hours

# Proposed lecturers

* [Lars Schöbitz](https://ghe.ethz.ch/about/people/person-detail.MjkyODc2.TGlzdC80MTI2LC0xNDYwMDMwNTU3.html) - [Global Health Engineering - ETH Zurich](https://ghe.ethz.ch/)

# Prerequisites

1. A laptop with internet connection and one of Mozilla Firefox, Safari, Google Chrome, Microsoft Edge (just not the Internet Explorer)
2. A registered account on GitHub: https://github.com/
3. A registered ORCID iD: https://orcid.org/
4. A registered account on Zotero: https://www.zotero.org/user/register

# Teaching methods

* Participatory live coding, using Posit Cloud infrastructure
* Pair Programming, using Zoom break-out rooms

# Tools

* Posit Cloud (https://posit.cloud/) Workspace managed by Global Health Engineering group