Analytical Workflows

Philosophy

Course

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Syllabus

Accounts &

Apps

Project Proposals

Admission

Analytical Workflows IB599

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Course Principles

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Automation

Doing science involves repetition at multiple levels.

Automation is more efficient and reduces mistakes.

Reproducibility

Science should be reproducible, by others and you.

Your work must be readable, organized, and self-contained.

Correctness

Science's limitations are human. Software can overcome bugs. Your science must be bug-free.

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Simplicity

Analyses should be as simple as possible.

Clever and readable are often at odds.

Openness

Science is a worldwide endeavour.

It, and access to it, should be free and equitable.

Science as Software Development

Science has no end product, just versions and updates. Software developers have tools to help.

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https://github.com/analyticalworkflows

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What you'll need

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Software

- Git
- ATEX

Accounts

■ GitHub¹

LATEX editor

- TeXstudio, Atom, etc.
- OverLeaf

Git GUI

Sourcetree



¹Please send me your username.

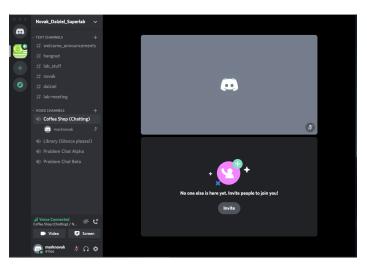


To Zoom or not to Zoom?

Analytical Workflows https://discord.com

Accounts &

Apps



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Project Proposals - Let's get started!

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Primary Goal

To develop more efficient research skills.

Secondary Goal

To make significant progress on your thesis.

Our belief

We can achieve both in this course!

https://github.com/analyticalworkflows/ TeachingMaterials/classes/ProjectProposal

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We're all learning...

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This is my first ever LATEX Beamer presentation!

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Admission

- Be kind to yourself
- Support each other

Integrity

Doing the right thing, even when no one is watching.