

Research ○	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

How to write a project

Christian Wuthrich

October 1, 2018



Research ●	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Find sources (see also library training)

- Books, articles, reviews, data ...
- Library UNLOC, eLibrary Gateway, Web of Science, ...
- Databases of articles: MathSciNet, zbMath, arxiv
Short review, references to, references from, BibTeX
- Working at home: Use eLibrary Gateway.
- Ask at library, ask supervisor.



Research ○	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Dates and deadlines

- Meet your supervisor !
- Come to the **library training** on **Monday Oct 8, 1pm** in **ESLC B07**.
- Go to the **L^AT_EX introduction** on **Tuesday Oct 9, 4pm** in the **computer room Coates C19**
- Write a **progress report** by November 2
- Final deadline for **report** and **poster**: January 14



Research ○	Progress report ●	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Progress report

- Not assessed. Mainly feedback for you.
- One, two, three pages. Contains:
 - - What is the project about?
 - - What have you done?
 - - What and when do you plan to do?
- Submitted on moodle as a pdf.



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	●○○○○○	○	○	○○	○	○○

Final report

The final report should have the following elements:

- Title page
- Abstract
- Introduction
- Main body
- Conclusions
- References

The \LaTeX template has this set up for you.



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○●○○○	○	○	○○	○	○○

Abstract

The **abstract**

- **states the topic(s)** under investigation,
- **main results** or **conclusions**, and
- also **methods** or approaches where appropriate.
- It is informative, self-contained and concise.



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○●○○○	○	○	○○	○	○○

Title page

The **title page** contains

- Title (that should correspond to the contents)
- Author
- What it is (project/dissertation)
- Plagiarism disclaimer



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○○●○○○	○	○	○○	○	○○

Introduction

The **introduction** contains

- Background and context of the work.
- Aim of the work.
- Overview of the work.
- Statement of main achievements, results or conclusions.
- Structure of the report outlined.
- It is one of the last things you write.



Research ○	Progress report ○	Final report ○○○○●○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Main body

- Report broken into **sections** of digestible length, using **subsections** and **appendices** where appropriate.
- Text within sections appropriately broken into **paragraphs**.
- Sectioning is effective in signposting the main aspects of the work.



Research ○	Progress report ○	Final report ○○○○○●	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	------------------------	--------------	--------------------	--------------	-----------------	----------------

Other elements

- Table of contents `\tableofcontents`
- Equations, figures, tables etc adequately and accurately cross-referenced. `\label`, `\ref`
- Captions to figures and tables appropriately informative.
`figure`, `table`, `tabular`, `\caption`
- References collected into a bibliography.
`\cite`, `\thebibliography` or BibTeX



Research ○	Progress report ○	Final report ○○○○○●	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	------------------------	--------------	--------------------	--------------	-----------------	----------------

Conclusions

The **conclusions** should contain:

- Summary of the results.
- Conclusions, with reflection and critical analysis.
- Results interpreted in the context of the project objectives where appropriate.
- Directions for further work indicated.



Research ○	Progress report ○	Final report ○○○○○○	Clarity ●	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	------------------------	--------------	--------------------	--------------	-----------------	----------------

Clarity

- How accurately and concisely does the text convey the meaning?
- Appropriate use of technical versus non-technical style.
- Grammar, punctuation and spelling. Proofreading.
- Layout and typesetting: fonts, spacings, page breaks; page numbering; equation typesetting.
- Technical production of figures, diagrams and tables where appropriate.



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○○○○○○	○	●	○○	○	○○○

Your audience

- A mathematician, but not necessarily an expert in the subject.
- Think of a student like yourself at the start of the project.



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○○○○○○	○	○	●	○	○○○

Poster

- Contains your name, a title and your supervisor's name
- Target audience knows less than for report
- Make it visually appealing: Use colours, pictures
- Split the space in columns or blocks
- We will show the best ones in the atrium and they get amazon vouchers



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○○○○○○	○	○	●	○	○○○

Poster

- The e-poster should give a summary of the project to a non-specialist.
- It is A3.
- It is submitted electronically as a pdf-file on moodle.
- L^AT_EX, Powerpoint, ...



Research	Progress report	Final report	Clarity	Your audience	Poster	Plagiarism	Hand-in
○	○	○○○○○○○	○	○	○○	●	○○○

Plagiarism

Plagiarism means to pass off someone else's work, intentionally or unintentionally, as your own.

- DON'T.
- Read the guidelines. Chapter 6 in the student handbook.
- Reference all sources [1] precisely (see Theorem 3.1.2 in [2]).
- He writes "Reference every quote" on page 1234567 in [19].
- Don't use scanned pictures without acknowledgement.
- Never copy-paste into your file.
- Your work will be checked by turnitin.



Research ○	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ●○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Hand-in

- Final report printed: double-sided, bound or stapled, (Student Service Centre)
- Final report: pdf. (Moodle)
- e-poster: pdf. (Moodle)
- Keep your files (.tex, code, data, pictures, ...) We might need them.



Research ○	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○●
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Enjoy your project !



Research ○	Progress report ○	Final report ○○○○○○○	Clarity ○	Your audience ○	Poster ○○	Plagiarism ○	Hand-in ○○○
---------------	----------------------	-------------------------	--------------	--------------------	--------------	-----------------	----------------

Worry about:

- Deadline (Heavy penalty)
- Page limit etc. (See moodle page)
- Backup your files regularly

