Writing scientific reports

- · Should be a self-contained document Independent piece of work.
- · Assume the reader has not seen the project description (Assume this is not a course assignment, but rather some small research project / technical investigation)
- o Don't write about e.g. "Problem 2 in project 3" and they're not interested - they want to know what investigations you've done and what you've found.

· Report format:

- · Title (+ author list)
- · Abstract
- · Introduction
- o Method / Theory / Algorithms
- · Results and discussion
- o Conclusions
- o [Appendices ?]
- · References

- o Other important aspects:
 - Tidy layout
 - Figures + fig. caption)
 - Tables + captions
 - Algorithms
- o We have provided a latex template
 - Read it! It routains a lot of useful into and functions as an example
 - equally vice layout!
 - o Code still on GitHab, give linke in report (Include full und not just hyperlink)

[Go through elements of a report, using our two example reports and arxiv.org examples.]

Abstract (Show example on arxiv).

- o Short summary
- o Meution main results (with key numbers), not just list what you have done

Introduction

- Set the stage make the reader a sit interested & Meetion why your work is important" ("I want a good grade" is not relevant motivation)
 - Example: If we have solved a port type of equ., mention why this is important (where does this eq. show up)
 - If we've studied optimization of some algo, explain why that is important.

(or Netflix) - but don't overdo it!

5 @ Present problem here?

o Common to end intro. Sy outlining the rest of the

Method / Algorithms / Theo-y

For leve? physics problem in wore detail (?)

- @ Explain formalism
- o Explain, devine algorithms
- O'Define the notation you're using (be consistent!)

· Any special strategy? Mention it here

o Typically don't present any vesults have

or Results and discussion) Results

- Present all results (figures, to tables,...) o One approach: but don't do much discussion. Just point out how you oft. and what they show Then, in the Discussion section, discuss the various results.
- o Other approach: Bos Joint results + discussion. Present and discurs each result as you get
 - o Day attention to figures, fig. coptions, takes sizes axis labels, colours, notation, tables ...
 - · Note: Always neter to all tables /figures from the main text. If you don't nefer to it, it shouldn't be there!

Discussion

· Ave the results

ownet do the results mean?

of the they as experted? (grown the theory (method soften)

o Key numbers, twends,

o You choose what to highlight (but make sure you cover everything we reg.)
inclusion

Conclusion

o Summarize again! /nombers

References

o (Dou't copy sentences)

0 60 back to general points