Project & Final Exam & Assessment

Anthony W. Lin

Project (due 14 July)

- Implement **your own** DPLL-based SAT-solver in Python
- It should parse a formula in DIMACS-CNF
- Write a 1-page summary of key implementation ideas
- Assessment criteria: correctness (30%), performance (10%)

This has to be your own work!

Final Exam (due 14 July noon)

Two choices:

- Application of Constraint Solver:
  - Find a computational problem of your own interest. Develop/ Implement two algorithms for it: one uses Z3, the other one does not. Compare their performance.
  - Deliverables: Python code, benchmarking results (1-page PDF)

- Read Research Paper:
  - Read a research paper (I can give you suggestions) that are related to the course.
  - Deliverables: A concise and readable (at most 4 pages, 10pt) summary

Presentation (14 July)

- Deliverables: PDF/Powerpoint slides (at most 5 slides + first slide) by 14 July noon.

- 10-minute presentation + 3-minute Q&A’s