

# Introduction

M.Sc. in Mathematical Modelling & Scientific Computing,  
Practical Numerical Analysis

Michaelmas Term 2020

# Introduction to Practical Numerical Analysis

- ▶ Two lectures per week on Mondays at 2pm in L2 and on Fridays at 10am in L2.
- ▶ There will be one problem sheet per week to be submitted on Thursdays by 12noon.
- ▶ After week 1, the Friday lecture will go through concepts and the Monday lecture will go through the problem sheets.
- ▶ Idea is to learn more Matlab by a set of examples from Numerical Analysis.
- ▶ Our TAs will be Fabian Laakman and Constantin Puiu.
- ▶ Course materials, including slides and problem sheets, will be available from <https://courses.maths.ox.ac.uk/node/51652/materials>.

# Introduction to Practical Numerical Analysis

Topics we will look are

- ▶ Interpolation
- ▶ Quadrature
- ▶ Rootfinding
- ▶ ODEs (initial value problems)

# Introduction to Practical Numerical Analysis

The idea of the Friday lectures (and Monday in week 1) is to summarise the ideas for a topic. While there may be theorems stated, there will not (generally) be any proofs — this is meant to be a practical course.