#### Hello!



- I'm Chris Blake and I'm a lecturer in the Centre for Astrophysics & Supercomputing
- Please contact me! You can ...
- E-mail: cblake@swin.edu.au
- Use Canvas inbox/messaging
- Chat to me during tutorials/labs

#### Introduction to computer labs

- In the weekly computer lab, we'll study the numerical application of the maths we're learning
- Weeks 1-7: We'll use the MATLAB language, which is optimized for matrix applications
- Weeks 8-12: We'll use the R language, which is optimized for statistical applications
- Over the next few weeks, we'll complete different parts of an assessed MATLAB Project

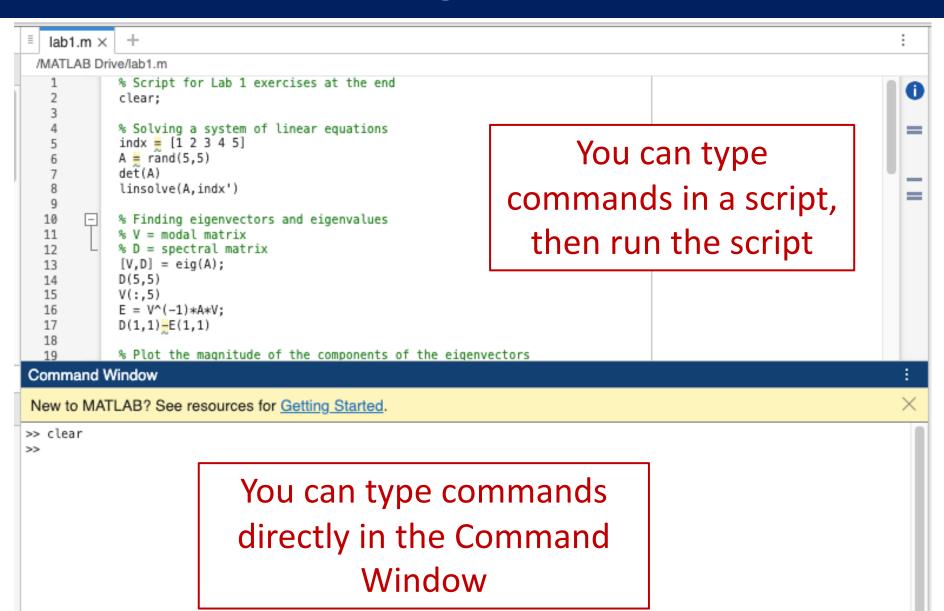
## Plan for Week 1 Computer Lab

- If you haven't already done so, create a MathWorks
  account and make sure you can run MATLAB 
  (see options on next slide)
- Familiarize yourself with basic commands by running through the "MATLAB Lab 1" instructions
  - (If you're already familiar with another computer language, perhaps make a table of matching commands to help you)
- Start the **Onramp Course** on the MathWorks website (You'll need to complete it by the end of Week 2, as part of your assessed MATLAB Project)

### Installing MATLAB

- Create a MathWorks account using your Swinburne e-mail <a href="https://au.mathworks.com/academia/tah-portal/swinburne-university-of-technology-30596663.html">https://au.mathworks.com/academia/tah-portal/swinburne-university-of-technology-30596663.html</a>
- Options for running MATLAB:
  - 1. Install MATLAB on your laptop (from MathWorks website)
  - 2. Open MATLAB online (from MathWorks website)
  - 3. Run MATLAB on the PC in front of you
- Support for downloading MATLAB is also available at: <a href="http://www.its.swinburne.edu.au/services/software.html">http://www.its.swinburne.edu.au/services/software.html</a>
   <a href="http://www.its.swinburne.edu.au/services/software.html">http://www.its.swinburne.edu.au/services/software.html</a

### Running MATLAB

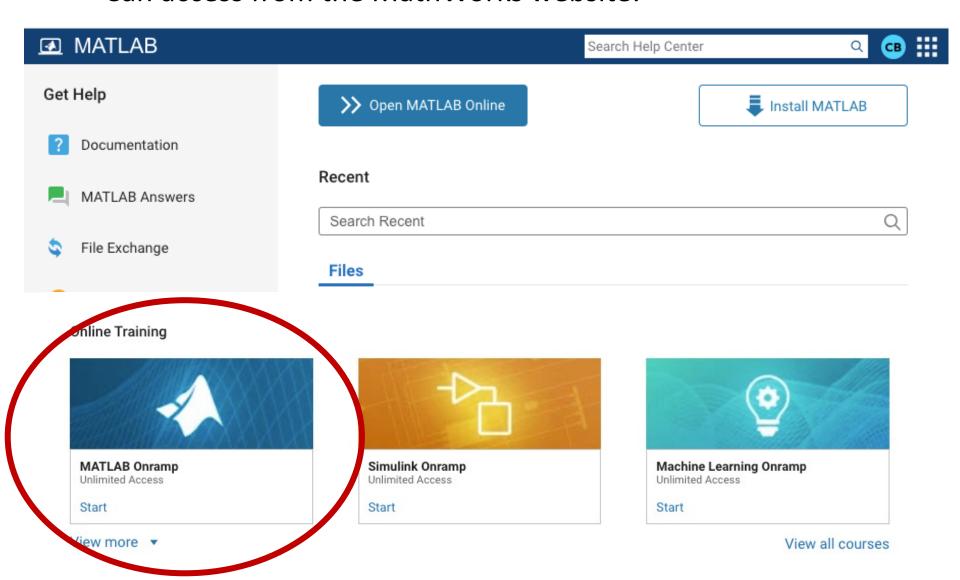


#### Lab 1 instructions

Week 1 MATLAB resources Study plan for Week 1 (August 4 - August 10) Tutorial 1 MATLAB Laboratory 1 lecture notes from study guide

#### MATLAB Onramp

Can access from the MathWorks website:



# Plot for Lab 1

