



ACM SIGCHI Summer School on Computational Interaction

27th August - 1st September 2018

University of Cambridge, UK

Installation Instructions

Anaconda

For the interactive sessions of the summer school you will need Anaconda for Python 2.7. We are using Python 2.7, since it's compatible with most packages and libraries. Please download and install Anaconda from:

<https://www.anaconda.com/download/>

Additional Python Packages

Some of the python packages which are needed for the summer school are not included in standard python nor Anaconda. These must be installed separately. In the following you can find a list of the necessary packages and how to install them:

Windows

Search you *Start* menu for the Anaconda prompt.

Linux and macOS

In a terminal window, type in `python -m` before typing `pip install` (e.g., `python -m pip install bumpy`).

Package List

pykalman

```
pip install pykalman
```

control

```
pip install control
```

keras and theano

Before installing *keras* or *theano* you must have the gcc-compiler installed. On Windows you can use <http://tdm-gcc.tdragon.net>

```
pip install keras theano
```

pyglet

```
pip install pyglet
```

soundfile

```
pip install soundfile
```

tracker

```
pip install tracker
```

sounddevice

```
pip install sounddevice
```

pydot

```
pip install pydot
```

pymc2

macOS users will require GFortran from: <http://gcc.gnu.org/wiki/GFortranBinariesMacOS>

```
pip install pymc
```

sklearn

```
conda install scikit-learn
```

seaborn

```
conda install seaborn
```

opencv

```
conda install --channel https://conda.anaconda.org/memex opencv
```

If you have an existing python installation not from anaconda, try one of the following tutorials:

Windows/Linux:

http://docs.opencv.org/3.1.0/da/df6/tutorial_py_table_of_contents_setup.html

Mac:

<http://www.pyimagesearch.com/2015/06/15/install-opencv-3-0-and-python-2-7-on-osx/>

gurobi

```
conda install --channel http://conda.anaconda.org/gurobi gurobi
```

You will also need to register for a free academic license from

<http://www.gurobi.com/downloads/user/licenses/free-academic> and follow the

instructions. You will need to register, set a password, request an academic license, and install the license using the `grbgetkey` command.

Git

Some sessions may offer additional materials. These will be made available, where possible, using the Summer School `git` repository at GitHub.

<https://github.com/jtj21/ComputationalInteraction18> [is.gd/githubci2018]

If you are new to `git`, GitHub provides guides on installing `git` and how to clone a repository:

<https://help.github.com/articles/set-up-git/>

<https://help.github.com/articles/cloning-a-repository/>