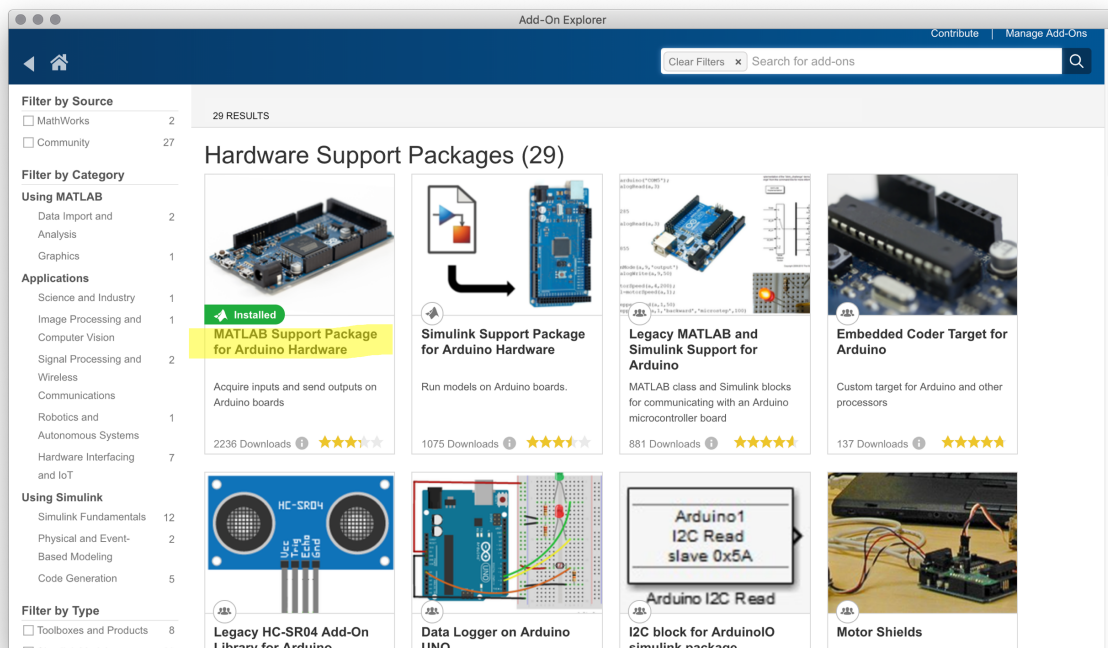
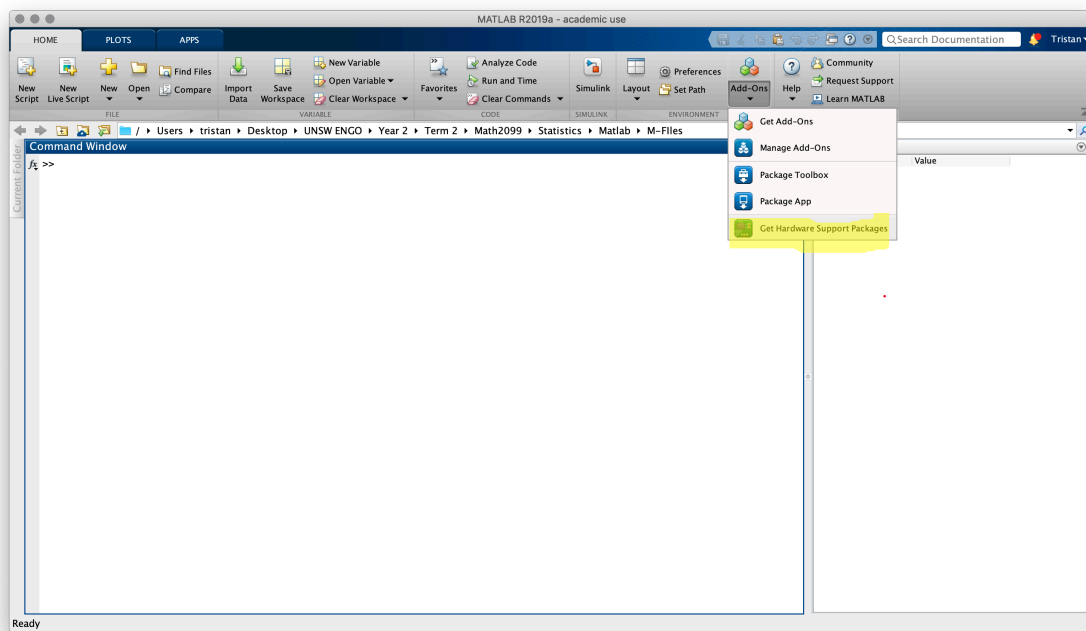


EXTENDER DONGLE INSTRUCTION MANUAL

1. Download and install Arduino Hardware support package on MATLAB.
2. Connect the Arduino board to the PC. To establish a connection between MATLAB and Arduino boards, the following command can be used from MATLAB:

```
>> a = arduino
```



- Copy and upload one of the supplied Arduino sketches into the Arduino application. A summary of the sketches is as follows:
 - Trigger1: This sample trigger sketch turns a digital pin on and writes to the serial port when the input is 1. Useful for manual triggering.
 - Trigger2: This sample trigger sketch triggers a single pulse of a specified duration to a digital pin then writes to the serial monitor when the input is 1.
- Copy and paste the following sample script into MATLAB as an m-file:

```
x = serial('InsertPortHere','BAUD', 9600);

fopen(x);
go = true;

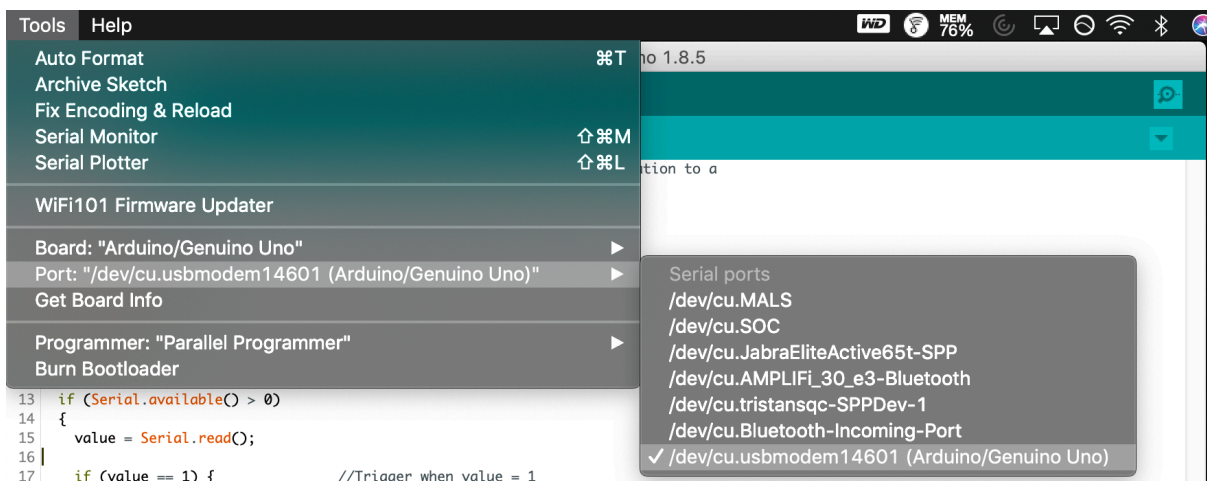
while go

    a= input('Press 1 to turn ON pin signal & 0 to turn OFF:');
    fprintf(x,a);

    /*if (Insert your own condition/loop here){
        a= input();
    end */

    if (a == 2)          //Press 2 to exit program
        go=false;
        fclose(x)
    end
end
```

Change 'InsertPortHere' to the specified port the Arduino is connected to. This can be found in the Arduino application: In this case- 'dev/cu.usbmodem14601'



- Run the MATLAB script. Quit MATLAB and the Arduino application to change m-files or sketch files.