



Welcome to your Visit Day!

... and the start of Your Manchester Experience...

Your Manchester Experience



Welcome week 2019

- **From Day One... to Graduation**
What you'll be studying here.
- **Off the syllabus**
The city, surroundings and social life.

- Welcome week: Logging on, Learning Linux
- Fundamentals of:
 - *Computer Engineering*
 - *Computer Architecture*
 - *Operating Systems*
 - *Computation*
 - *Data Science*
- Introduction to Programming
 - *Fundamentals - Python*
 - *OO programming - Java*
- Mathematical Techniques for Computer Science

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Tutorial and Year 1 project

Poster show



Sample posters



Winning teams

- Small groups, weekly meetings, teamwork
- Make a Web application of your choice
- Big poster presentation at end of year

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Many ways to learn: how we diversify your education

We use a variety of teaching mechanisms ...

- Lectures
- Small group tutorials
- Practical labs / examples classes
- Hands-on: *Raspberry Pi* for every student
- Directed reading assignments
- Face-to-face marking/feedback



Your Manchester Experience

What does a week in first year look like?

Printable
Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	-	-	-	-	-
09:00	COMP11120 ^[w1-5,7,9-12] Chemistry_G.51	W COMP12111 ^[w2+] Toot 1 M+W COMP1INTRO ^[w1] LF31	W COMP15111 ^[A w3+] G41	W COMP11120 G41	-
10:00	-	W COMP12111 ^[w2+] Toot 1 M+W COMP1INTRO ^[w1] LF31	M+W COMP1INTRO ^[w1] Tootill (0 + 1)	W COMP1TUT	-
11:00	-	COMP12111 1.1	M+W COMP1INTRO ^[w1] Tootill (0 + 1)	-	W COMP15111 ^[B] LF31
12:00	COMP16321 ^[w7-12] 1.1 COMP16321 ^[w1-5] 1.1	COMP10120 ^[w1-5,7-10,12] 1.1	† COMP1PASS ^[w2+] Collab	COMP11120 1.1	W COMP15111 ^[B] LF31
13:00	COMP12111 ^[w10,12] Roscoe_TH A COMP12111 ^[w1-5,7-9,11] 1.1	-	-	-	-
14:00	COMP11120 ^[w8] Simon_TH E	-	-	M+W COMP16321 Collab	-
15:00	COMP15111 ^[w7-12] 1.1 COMP15111 ^[w1-5] Hum Bridge St_CORDINGLEY TH	M+W COMP16321 ^[w2-5] LF31	-	M+W COMP10120 ^[w2+] LF31 M+W COMP1INTRO ^[w1] LF31	COMP16321 ^[w7-12] 1.1 COMP16321 ^[w1-5] 1.1
16:00	-	M+W COMP16321 ^[w2-5] LF31	-	M+W COMP10120 ^[w2+] LF31 M+W COMP1INTRO ^[w1] LF31	COMP15111 ^[w7-12] 1.1 COMP15111 ^[w1-5] 1.1
17:00	-	-	-	-	-
Notes					
Key	Lecture Laboratory Examples-Class Workshop Team-Study Tutorial				



We provide Peer Assisted Study Sessions

Your Manchester Experience

PASS: Peer Assisted Study Scheme

- 2nd/3rd year students mentor to 1st and 2nd years
- Joint study sessions
- Help with coursework



 <p>Igor Wodiany (igor.wodiany@student.manchester.ac.uk) 4th Year BSc Computer Science student back from a placement at Intel. Also GreatUniHack director and HackSoc member. In my free time I read books and learn foreign languages.</p>	 <p>Nick Park (nick.park@student.manchester.ac.uk) 4th Year BSc Computer Science student back from placement at Morgan Stanley + Google.</p>	 <p>Jaebin Yang (jaebinyang@student.manchester.ac.uk) 3rd Year BSc Computer Science student, and 2nd year transfer to the uni. of Manchester.</p>
 <p>Wenxuan Dong (wenxuan.dong@student.manchester.ac.uk) 3rd Year BSc in Computer Science. Interned at UBS.</p>	 <p>Zyad Bamigdad (zyad.bamigdad@student.manchester.ac.uk) 3rd year</p>	 <p>Aayush Chadha (aayush.chadha@student.manchester.ac.uk) HackSoc. Spends free time at hackathons, mostly.</p>

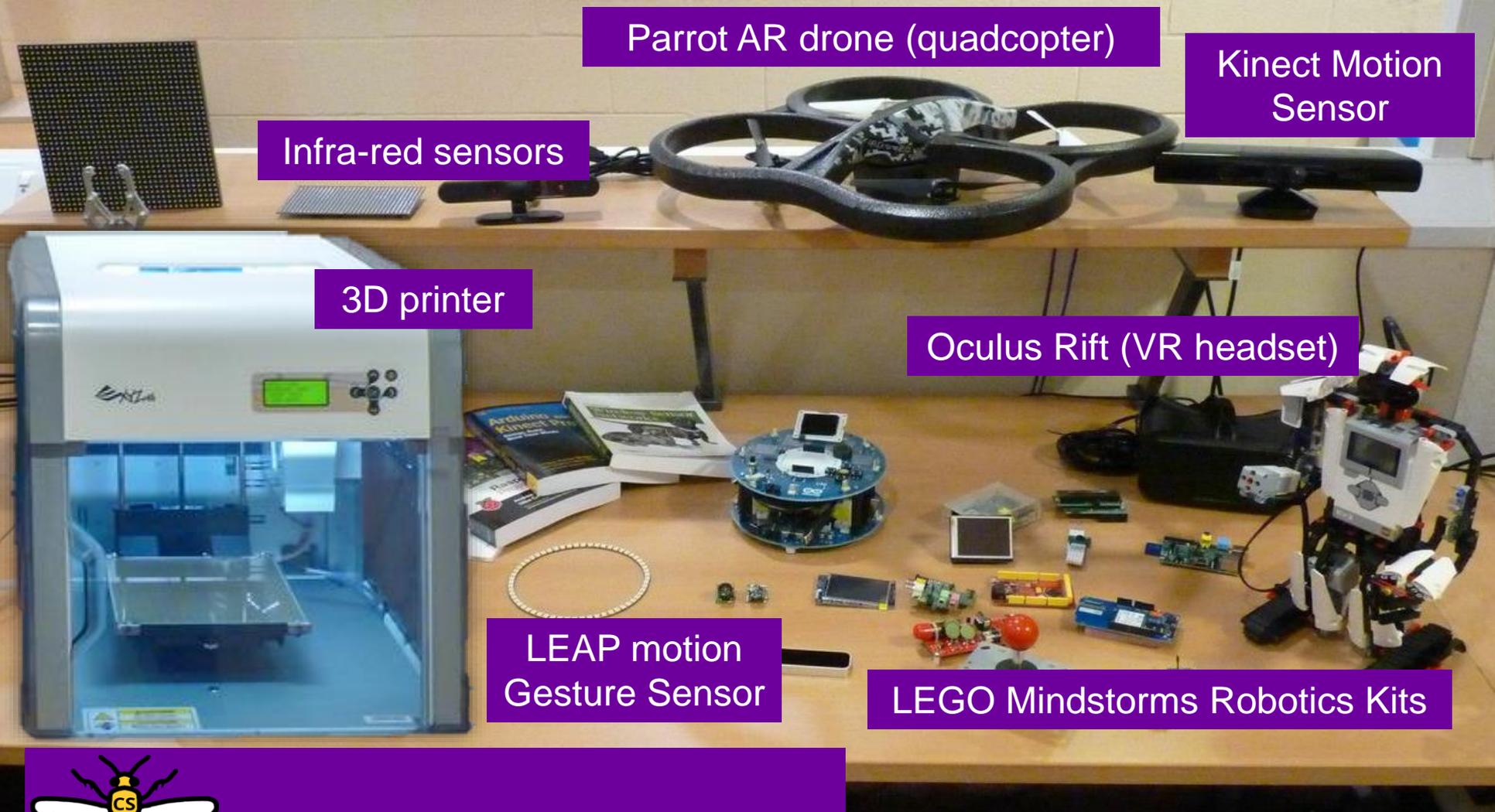
PASS2 team



With a little help from your friends: PASS

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All kit available for any student to borrow and play with



Parrot AR drone (quadcopter)

Kinect Motion Sensor

Infra-red sensors

3D printer

Oculus Rift (VR headset)

LEAP motion Gesture Sensor

LEGO Mindstorms Robotics Kits



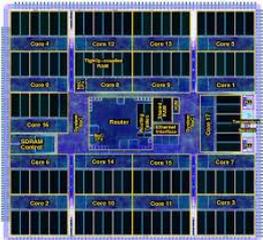
Hardware library

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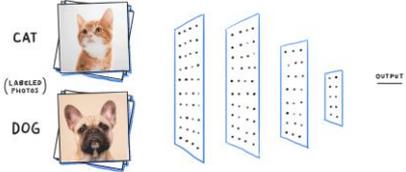
Honing your skills: your 2nd year

Computer Science
Programming languages & paradigms
Algorithms & data structures
Software engineering
+60 optional credits

Computer Systems Engineering
Programming languages & paradigms
Algorithms & data structures
Software engineering
Microcontrollers
Processor microarchitecture
System architecture
Mobile systems
+20 optional units



Artificial Intelligence
Programming languages & paradigms
Algorithms & data structures
Software engineering
Machine learning
Symbolic AI
+40 optional credits



Software Engineering
Programming languages & paradigms
Algorithms & data structures
Software engineering
Distributed computing
+50 optional credits



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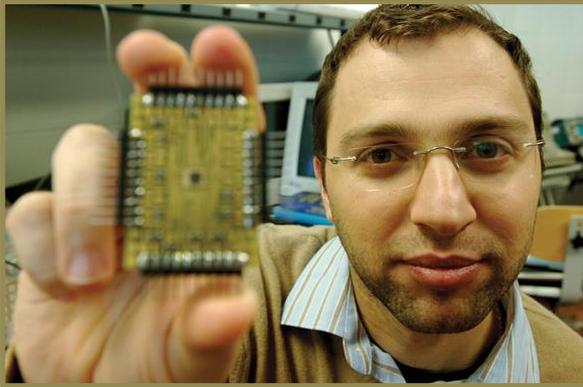
Going deep: your 3rd year

- Counts 2/3 of final degree
- Lots of choice...
 - Artificial Intelligence and Games
 - Agile Software Engineering
 - Chip Multiprocessors
 - Compilers
- Major individual project



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Optional units:
wide choice



The Internet of Things

Y3: Vasilis Pavlidis

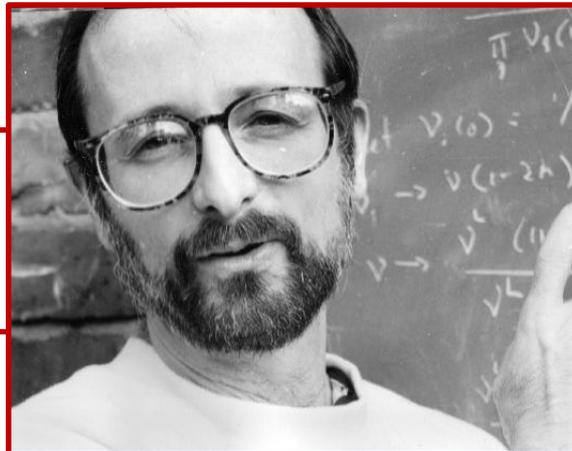
Cryptography & network security

Y3: Ning Zhang



AI and Games

Y3: Jon Shapiro



Research: Top 5% in the UK (4th out of 89) – REF2014

Why is this important for you?

- Academics are leaders in their field
- Our research informs our teaching
- Up-to date syllabus
- Summer jobs are available in research labs
- 3rd year project can be a research oriented work



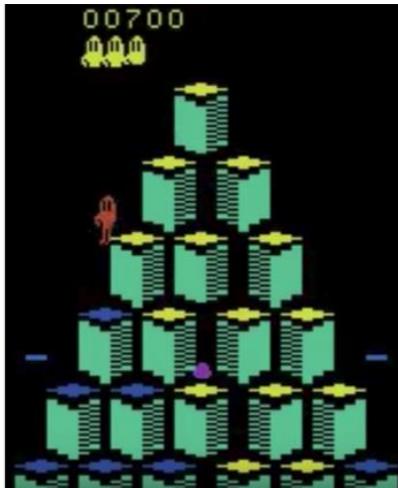
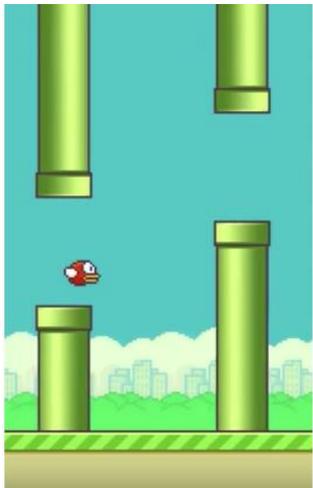
Best environment in the UK for computer science and informatics research.

Your Manchester Experience



Something to be proud of: your final year project

- One-to-one mentoring with a staff member
- 5 month project
- A chance to make your impression



This flower is white and yellow in colour, with petals that are multi coloured.



This bird has a white breast and belly and a small bill.



Small, roundish bird with off white breast and belly, light brown crown, brown and black coloured wings.



Andrei Muntean
Highly Commended in the Computer Science category of the **International Undergraduate Awards 2017**: “A deep learning agent written in TensorFlow”

Cristian Bodnar
won the International Undergraduate Awards 2018: “Text to Image Synthesis Using Generative Adversarial Networks”

Aayush Chadha
won the International Undergraduate Awards 2019: “LINK: Detecting, Analysing and Storing Eye Blinks using Graphene”

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Week 6 (Reading Week) • Monday 28 October 2019 • #19.07

THE MONDAY MAIL

Good morning! It's Monday 28 October and it's Reading Week! There are no scheduled teaching activities this week - it's a chance for you to have a break and recharge your batteries, or maybe do some catchup or get ahead with your coursework. We are back to normal on Monday 4 November (Week 7 - B week), when the usual timetabled activities resume. Enjoy the break and have fun on Halloween!



best wishes

Paul Nutter

Director of Undergraduate Studies

Your essential links: [HELP Mitigating-Circumstances](#) [UG SSO Timetable](#) [Counselling Report](#) [absence Handbook](#) [Courses Y1 Y2 Y3 Y4](#) [Student Activities Fund](#) [MM UG cal](#) [Remote access](#) [Kilburn access](#) [Have-your-say](#) [SSC](#) [@csmcr](#) [ITFAQ](#) [HelpDesk](#) [TOO HOT/COLD](#)

GOOGLE TALK. Last week's Google talk was a great success, with our alumni **Teo Stoleru** (graduated last summer) and **Todd Davies** (graduated 2016). Thanks to them both for coming! You can see more pix [here](#).



**Keeping in touch:
The "Monday Mail"**

<http://tinyurl.com/themondaymail>

Your Manchester Experience

**Representing your views:
The staff-student committee**

- Represents your viewpoints
- Meets 4 times per year
- We take your concerns seriously



Your Manchester Experience

A vibrant community



Staff student programming competition



Hackathons!



May ball



Staff vs students quiz



Your Manchester Experience

A very special day... Graduation



Cap & gown procession in the Great Hall

Awards ceremony for top students

School-hosted party for you & your family



Your Manchester Experience

This is a BIG city. Lots of things to explore...



Most liveable city in the UK and top 50 in the world

Your Manchester Experience



Just 40 min. (train), or 30 min. (car) to here

Your Manchester Experience

Kilburn Entry Scholarship

Get A*A*A, with the A* in **Maths**....
...and we'll give you **£1000**.

(eligibility: mainland UK and EU students)



Why CS at Manchester then?



Large department and well resourced



Small group tutorials every week



We provide Peer Assisted Study Sessions



Best environment in the UK for CS research



Most liveable city in the UK, top-50 in the world



88% employment rate