

Dr. Duncan Hull

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About



I am a lecturer in the Department of Computer Science at the University of Manchester where I lead the Industrial Experience (IE) program. Every year, around 100 of our undergraduate students spend a year in industry as an intercalated part of their degree.

I teach undergraduate courses, supervise tutorials, final year and masters projects. I serve as second year tutor and employability tutor. I'm interested in better teaching methods for example, using new ideas like vertical tutoring.

If you are an employer who would like to recruit a summer intern, placement student or graduate please get in touch. During term time, we highlight opportunities for students via the Wednesday Waggle.

Background

My background is a mixture of Natural Science (Plant Sciences, BSc) and Computer Science (MSc & PhD). I've worked as a consultant and developer of web applications for various organisations including BBC Monitoring, The Ford Motor Company and the National Health Service (NHS). While working on the Apache Taverna, myGrid and Refine project I completed a PhD and postdoc in Bioinformatics at the University of Manchester. More recently,

I was also employed as a software engineer (Chemical Entities of Biological Interest: ChEBI) of a biochemical database by the European Bioinformatics Institute (ebi.ac.uk) on the Wellcome Trust Genome Campus in Cambridge, UK.

I have taught various flavours of Science to primary & secondary school children, sixth formers, undergraduates & postgraduates in England and India. More details at [linkedin.com/in/duncanhull](https://www.linkedin.com/in/duncanhull).

Tools

This website is written in R markdown and built using bookdown and knitr in RStudio, with the source available on github. I could have (should have?) used blogdown and Hugo, but opted for bookdown because it is much less bloated easier to use.

Chapter 1

Students

During term time I teach on a variety of undergraduate and postgraduate courses including:

1.1 All years: debug your CV

- You can drop-in to my weekly CV clinics for Computer Science students in LF25 during term-time. Whatever stage you are at, it is a good idea to **debug** your CV, LinkedIn, job search, life etc before you show it to a potential employer. These sessions are open to undergraduate (BSc, BEng) and postgraduates (MSc and PhD). If you haven't written a CV, résumé or LinkedIn profile before, you might find the *Debug your CV* guide useful at git.io/mycv. Outside of term time, you'll need to book an appointment.

1.2 First year

- First year team projects: COMP101 led by Ulrike Sattler
- Mentoring one group of six first year students
- Organise first year guest lectures, which mostly run in the second semester, February to May

1.3 Second year

- Second year software engineering: COMP23311 led by Suzanne Embury
- Lab organiser for the software engineering mentoring program
- Leading second year tutorials COMP2CARS and being a second year tutor to a group of six students

1.4 Penultimate year

- Course leader for “with industrial experience”, (IE) an elective year in industry.

1.5 Final year

- Supervising final year educational projects based in secondary schools in Manchester, see git.io/computinged.

1.6 Masters

- Supervising Master of Science projects in Data Science, particularly subjects relating to Wikipedia, Wikidata and the use of chatbots.

1.7 Extra-curricular

- Organise, facilitate and promote extra-curricular activities, usually off-timetable (for example Wednesday afternoons, evenings and weekends). I’m proud to have served as a judge of the fantastic studenthack.com and greatunihack.com since they started in 2014. These hackathons are organised by UniCS, (formerly known as HackSoc and CSSoc).

Chapter 2

Employers

We work with a wide range of employers from the tiniest startup to the largest multi-national corporations, and are always looking for more organisations that can offer our students a stimulating environment to work in. According to highfliers.co.uk, the University of Manchester is one of the most targetted Universities in the UK by the Times Top 100 Graduate Employers.

2.1 Recruiting students

If you are recruiting computer scientists and software engineers as a summer interns, placement students or as graduates please get in touch with me or Mabel Yau (careers and placements officer).

If you are looking to recruit students from related degree disciplines like Physics, Maths and EEE you should talk to the Careers Service centrally at careers.manchester.ac.uk

2.2 Careers fairs

As an employer, you can exhibit at several careers fairs at the University of Manchester. For our annual Computer Science careers fair in the Kilburn building, please contact the careers and placements officer Mabel Yau.

The central careers service also organises the big careers fair in Manchester Central every autumn, see the Big Careers Fair and a smaller careers fair in Fallowfield in May.

2.3 Industry Club

Employers are welcome to join our industry club mailing list by sending an email to listserv@listserv.manchester.ac.uk with the the text **subscribe cs-industryclub yourfirstname yoursecondname** in the body of your message.

You will receive two to three updates per year and an invitation to our industry club meetings which usually happen every year. We promise not to spam you or sell your details on to third parties.

2.4 The Wednesday Waggle

During term time, we highlight events and vacancies from a wide range of sources to students via the Wednesday Waggle. If you have vacancies or events you would like our students to know about, get in touch.

Chapter 3

Research

My research interests are in Computer Science Education (CSE) and Wikipedia. I am particularly interested in better teaching methods that prepare students for the wide range of careers they go onto after graduation.

3.1 SIGCSE

In the UK we have only been teaching Computer Science to undergraduates for 50 short years, so there's lots of open questions about how to teach the practical and theoretical aspects of the subject.

- I'm a member of Association for Computing Machinery (ACM) Special Interest Group (SIG) in Computer Science Education (SIGCSE.org).
- As part of that I founded and chair a journal club for educators in Manchester, if you'd like to join us, subscribe to the mailing list by emailing listserv@listserv.manchester.ac.uk with the text **subscribe sigcse-journal-club yourfirstname yoursecondname** in the body of your message
- I'm serving on the program committee for Computing Education & Practice (CEP) at Durham University.

3.2 Code Club

I lead an after school CodeClub, part of a global network of free coding clubs for 9-13 year olds.

3.3 Wikipedia

Wikipedia (and its sister project wikidata.org) are great tools for improving your digital skills and communication skills, regardless of your level of computer literacy. As long serving editor of Wikipedia since 2004, I organise and participate in edit-a-thons to train and recruit new Wikipedia editors in collaboration with other volunteers. More information at:

- wiki-loves-scientists.org.uk
- en.wikipedia.org/wiki/User:Duncan.Hull

3.4 Informal publications

Informal publications can be found on my sporadically updated blog

- duncan.hull.name/lablog

3.5 Formal publications

Formal peer-reviewed publications can be found on DBLP, ORCID and Google Scholar...

- dblp.org/pid/h/DuncanHull
- orcid.org/0000-0003-2387-503X
- scholar.google.com/citations?user=iDJ-t7IAAAAJ

...and even wikidata:

- wikidata.org/wiki/Q47012855

Chapter 4

Vertical tutorials

Starting in September 2019, we are experimenting with running a vertical tutoring system for undergraduate students. The idea is fairly widespread in secondary education (see verticaltutoring.org), but as far as we know has not been used fully in higher education.

Extending the idea of Peer Assisted Study Sessions (PASS) pass.manchester.ac.uk, vertical tutoring creates tutorial groups with a representative of several years and combined with alumni.

Watch this space for updates!

Chapter 5

Contact

You can contact me using the details below :

5.1 Office

- Room LF25, Kilburn Building: bit.ly/directions-to-kilburn-building
- email: duncan.hull@manchester.ac.uk
- telephone: +44 161 275 6186

Also Mabel Yau, careers and placements officer :

- Room LF26, Kilburn Building:
- email: mabel.yau@manchester.ac.uk
- telephone: +44 161 275 6140

5.2 Online

- Slack, search for “Duncan Hull” or my work email
- LinkedIn linkedin.com/in/duncanhull
- Blog duncan.hull.name
- Github github.com/dullhunk
- Twitter twitter.com/dullhunk

5.3 Postal address

Send post to :

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