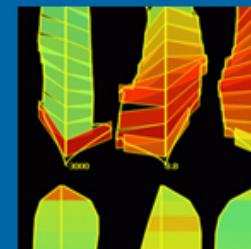
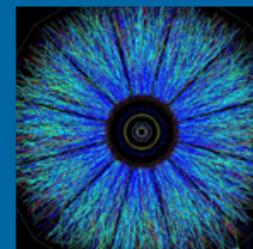
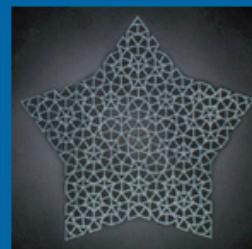
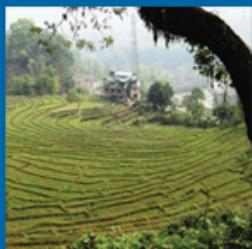




Swansea University  
Prifysgol Abertawe

# CS-130 Professional Issues

## How does this affect me?



# Learning Goals

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- What are some of the ways that I might actually use the skills or ideas from CS-130 in the real world?
- How common is it to need to make use of these skills?
- How important are the skills we discuss in this module?

# How does this effect me?

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Lots of modules are easy to understand the effect of

- You can all imagine how you might use programming skills in the real world
- You can all imagine how you might use your ability to administer a database in the real world

Perhaps more importantly, when you picture those uses, you probably all picture roughly the same things

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*When are you going to use the skills we try to develop in CS-130 in the real world?*

# The short answer: we don't know yet!

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There are hundreds of ways that professional issues might creep into your day-to-day work in a company but unlike other skills

- You won't have a professional issues challenge introduced to you as a professional issues challenge
- Your employer may well not understand that they are causing a problem with what they ask you to do (and might not like hearing it!)

So what do you need to do?

- Be able to recognise problems in every-day scenarios
- Be able to communicate the problem, the consequences of the problem and solutions clearly to non-technical audiences

---

*That's still not the most satisfying of answers  
so lets talk about some real world examples  
that have effected people*









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## The police 'super-recognisers' putting names to faces

By Lauren Potts  
BBC News

⌚ 19 October 2015 | [England](#)

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Super-recognisers study thousands of hours of CCTV, scanning the faces of people in crowds

Police officers with the ability to remember the faces of almost everyone they

### Top Stories

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Theresa May says she will trigger Brexit by the end of March, telling the Tory party conference it is time to strike a deal with the EU as an independent, sovereign UK.

⌚ 42 minutes ago

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⌚ 1 hour ago

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⌚ 26 September 2016

### Features



**Louis Theroux**

Looking back on Jimmy Savile

# Computers make mistakes, lose data, and mangle things

Two nurses were recently cleared of wilfully neglecting patients in a specialist stroke unit; they had risked going to prison. The problem these two innocent nurses experienced could have happened to anyone in any hospital.

The hospital's computerised blood glucometer records differed from what the nurses had written in the records. It was therefore alleged the two nurses had falsified patient records.

Once the police start exploring the vast amount of electronic records in a hospital, it is almost inevitable they will find problems. It just takes one complaint to start the process, and staff suspensions and arrests then follow with horrible predictability. It took three years of police work to bring this case to trial, and there was a vast amount of evidence, both paper and electronic.

The prosecution believed the computer records were a true and complete record.

The defence argued that the electronic data's integrity and provenance was not reliable; in fact the data *had* been manipulated. Because there was no auditing in the data trail, showing the data was unreliable was a complex technical process.

The pre-trial review consisted of two weeks of cross-examination of the expert witness and others in order to work through the reliability of the evidence.

In his ruling the judge said that presenting unreliable evidence to the jury would be misleading, and he therefore excluded it. The trial proper then started with the jury present, but the prosecution was unable to submit any evidence. The case

## Details

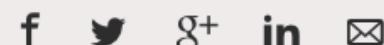
Date: 18 December 2015

Health Informatics Unit

Telephone: +44 (0)20 3075 1484

Email: [informatics@rcplondon.ac.uk](mailto:informatics@rcplondon.ac.uk)

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**chi+med**  
making medical devices safer

# OK, but this is all research right....?

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What about some examples from Swansea Uni CS Graduates

- All of my tutees that I still talk to after they graduated have had to consider their work in light of the UK Data Protection Act
- ...two of them are working with medical data for the NHS
- ...one is working with personal data at the DVLA
- ...one is going into software security testing

# Learning Goals

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- What are some of the ways that I might actually use the skills or ideas from CS-130 in the real world?
- How common is it to need to make use of these skills?
- How important are the skills we discuss in this module?

# Learning Goals

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- What are some of the ways that I might actually use the skills or ideas from CS-130 in the real world?  
Recognising an inadvertent crime in the planning, fixing an unknown hole in a security system, dealing with major legal upheaval
- How common is it to need to make use of these skills?  
Extremely common, certainly the majority of students need to use some elements of the work they do here
- How important are the skills we discuss in this module?  
Judge for yourself, but it has saved innocent people from going to jail, avoided catastrophic reputational damage to companies and even saved lives