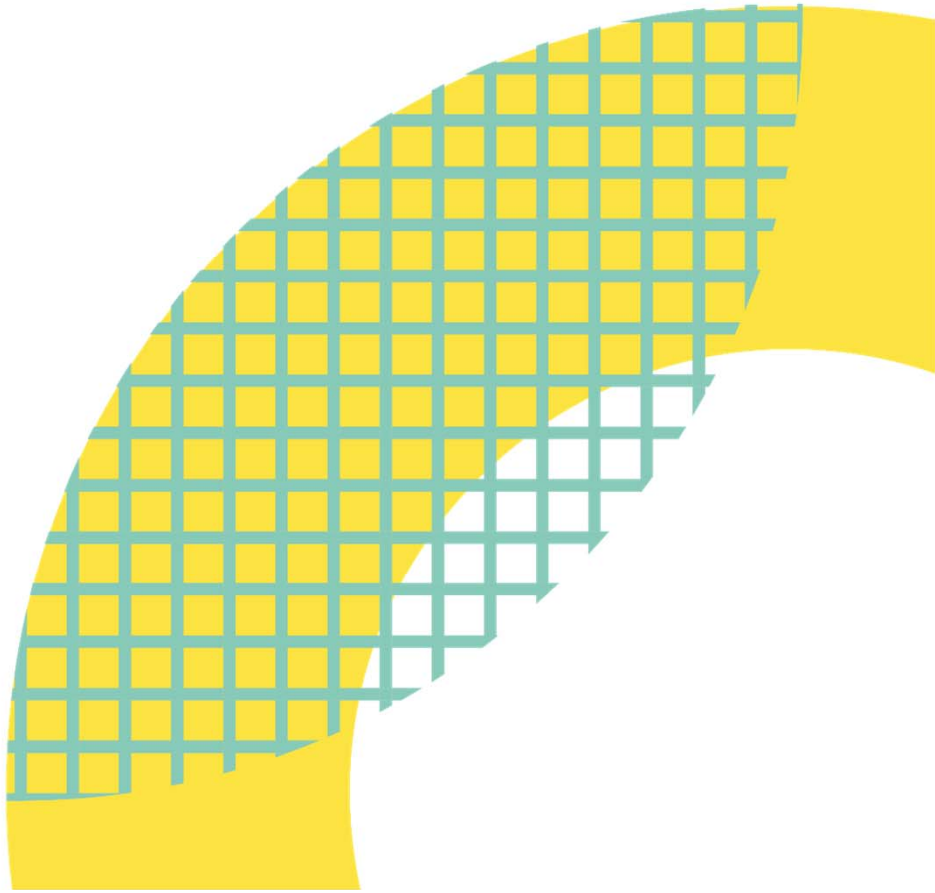
Institute of Coding Observatory (5.1)

Overview for CPHC, 30 April

Professor James Davenport (Bath)



institute of CODING

Digital Skills Observatory

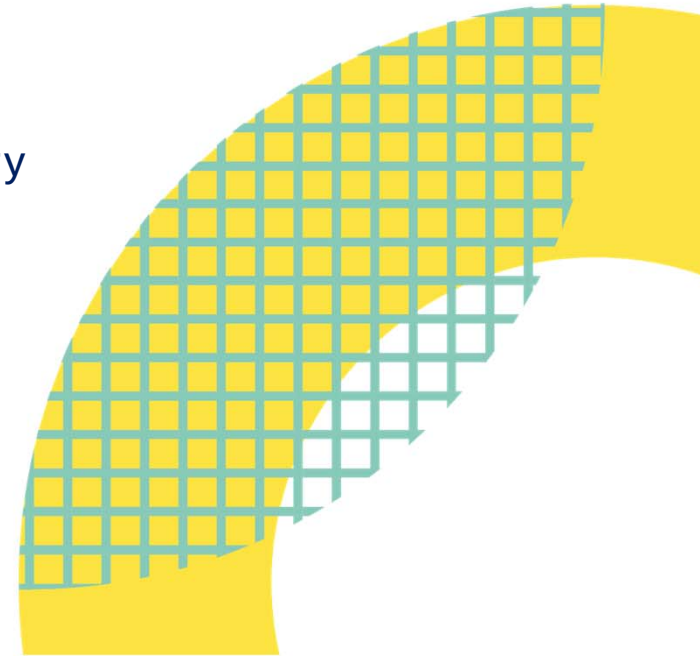
Challenge

- To develop an evidence base of knowledge and best practice for digital skills needs and training.
- This spans the whole Institute of Coding

Current Progress

- Two research fellows hired January 2019 at Bath
- Observatory network established
- Collating consortium research and establishing centralised repository
- Two reports in progress:
    - Measuring impact (not easy as DLHE has finshed)
    - Current & emerging trends

institute of CODING



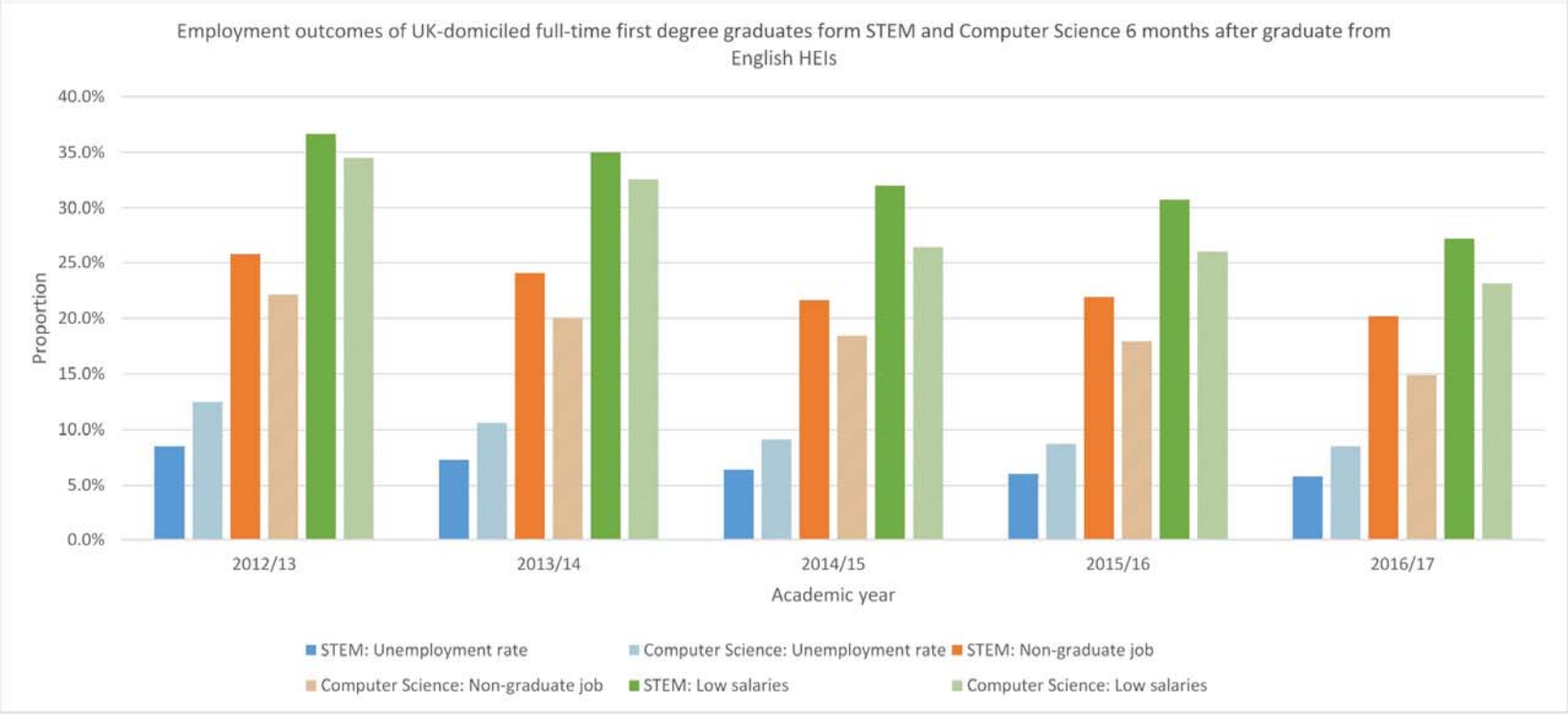
IoC Observatory (done)

An updated version of the Shadbolt report, using the latest data (i.e. 2017/18 DLHE, the last one before DLHE is replaced by GO.
Complete but not pretty (OfS have lost the source)

- No major surprises
- Modest growth in numbers continues
- Unemployment/Low Salaries/non-graduate job of CS students all showing improvement (in line with STEM, marginally faster)
- In particular, the worst unemployment universities have improved
- Diversity data – no real changes

institute of CODING

Update of Shadbolt Figure 6, page 30

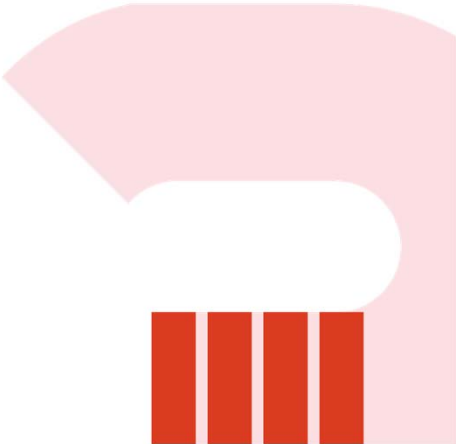


Data Source: Heidi Plus, HESA Destinations of leavers respondents Full Person Equivalent (FPE)
Filters: UK domiciled, full-time, first degree, English HEIs
Unemployment rate: % of graduates with activity recorded as unemployed
Non-graduate job: % of employed graduates with a non-professional employment marker
Low salaries: % of employed graduates earning less than £20,000
Computer Science: JACS subject area 8: Computer Science
STEM: Definition as per Wakeman review of STEM degree provision and graduate employability
Anatomy and physiology (JACS B1)**, Biological sciences** (JACS principal subject group C, excluding C6 and C8. JACS D7 and F4), **Chemistry** (JACS F1 and F2)**, Computer Science** (JACS principal subject group I 2012-13 onwards, JACS G4 to G7, G02, G92 pre 2012-13), **Earth marine and environmental sciences** (JACS F6, F7 and F9), **Engineering and technology** (JACS principal subject groups H and J), **Mathematical sciences** (JACS principal subject group G 2012-13 onwards, JACS G1 to G3, G01 and G91 pre 2012-13), **Pharmacy and pharmacology** (JACS B2), Physics (JACS F3 and F5).

IoC Observatory (being done)

- A version of the quantitative data from the Shadbolt report for MSc students, using the latest data (i.e. 2017/18 DLHE, the last one before DLHE is replaced by GO).
- Note that about 1/3 of CS graduates come from MSc.

- An analysis of continuation (=1-dropout) data.
- OfS (our paymasters) are very interested in this.
- Need to distinguish “changed course” from “dropped out of HE”



IoC Observatory (longer term)

Qualitative research to understand the Shadbolt effects

Analyse the effect of the Institute of Coding
- Quantitative data only possible for MSc ?+ level 7 Apprenticeships
- More qualitative research needed

Collect and disseminate best practice
- Advice on collection methodologies from Observatory
- Collection and reflection to be done by all partners
- Dissemination and publication by Observatory

institute of CODING

Questions?
IoCObservatory@bath.ac.uk