EPSRC Centre for Doctoral Training in Data Science

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What is Data Science?

- Discovering new patterns and knowledge from data
- Four year PhD programme (courses + PhD dissertation)
  - Machine learning
  - Statistics
  - Databases
  - Algorithms and systems
  - Optimization
  - Big data
  - Text processing
  - Computer vision
  - Speech processing
  - ...

...
Centre Themes

In our Research

- **Scale**: For streaming data and big data
- **Fusion** of text, images, speech, video, and graph data
- **Structure discovery**: latent variable models, deep learning
- **Trust**: Data quality, provenance, cleaning, truth discovery, archiving and curation
- **Ease of use**: Tools usable by numerate nonspecialists

In our Structure

- Combining insights across theory and practice
- Combining insights across research areas
- Interaction among students
- Interaction among students and external partners
CDT in Data Science: the Numbers

- **45** faculty in Data Science (Schools of Informatics and Maths)
- **50** fully-funded studentships (10 per year)
- **∼ 45** external partners, including Amazon, Apple, BBC, Google, IBM, Microsoft, Xerox, Yahoo!, public sector bodies, and many small & medium sized companies
- **∼ 100** “aligned” PhD students working on DS research
- 2 cohorts so far
  - 11 students in September 2014, 9 in September 2105
  - Backgrounds: Engineering, Maths, Computer Science, Linguistics, Physics (note: 1+3)
  - Highly international: UK, Bulgaria, Greece, Ireland, Indonesia, Portugal, Slovakia
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<tr>
<th>Year 1</th>
<th>Six courses, spanning machine learning, databases, NLP, vision, speech, maths</th>
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<tbody>
<tr>
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<td>Introductory lectures from main research groups</td>
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<td>Small practical project</td>
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<td>MSc project</td>
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<th>Year 2</th>
<th>PhD-level research</th>
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<td>1:1 meetings with a research supervisor</td>
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<td>yearly feedback from other staff, external partners</td>
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<td>opportunities for internships, collaborations</td>
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<td>reading groups, meetups, seminars</td>
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| Year 4                |                                                                                   |
Find out more!

- [http://datascience.inf.ed.ac.uk/](http://datascience.inf.ed.ac.uk/)

- Because of funding constraints, there are different rules for funding depending on your fee status:
  - UK and EU students: Full funding (fees and stipend) is available
  - Non-EU students: Funding is significantly more competitive; see the website for details

- Application deadlines (2015/16)
  - 11 December 2015 – all overseas applicants should apply by this deadline for full consideration
  - 29 January 2016 – all UK and EU applicants are encouraged to apply by this deadline for full consideration
  - mid-March 2016 – any remaining UK and EU studentships will be allocated in the third round