

Dr Julie Elizabeth Weeds

Address: Brighton, UK. E-Mail: J.E.Weeds@sussex.ac.uk

Nationality: British

Year of birth: 1976

An experienced research scientist and teacher, who is passionate about education and learning and who is an expert in extracting knowledge from unstructured data and in data analysis.

Employment

Lecturer in Computer Science, University of Sussex **Sept 2016 – current**

Responsible for teaching a variety of data science and computer science modules including Algorithmic Data Science, Data Science Research Methods, Natural Language Engineering and Advanced Natural Language Processing. Primary research interests include compositional distributional semantics, linguistic variation and applying natural language processing techniques to gain insights from large semi-structured or unstructured datasets.

Research Fellow, University of Sussex (P/T) **Oct 2012 – August 2016**

Working on a variety of projects in the department of Informatics (DisCo, Parcel and SHL) under the supervision of David Weir.

Associate Tutor, University of Sussex **Jan 2014 – August 2016**

Responsible for the design and delivery of the Advanced Natural Language Engineering module

Expert Examiner, Pearson Education (formerly Edexcel) **June 2011 – August 2016**

Responsible for online marking of A-level mathematics exams (AS and A2 Statistics)

Maths Teacher, Brighton & Hove 6th Form College **Jan 2010 – Aug 2011**

Maths Teacher and D of E Coordinator, Burgess Hill School for Girls **Sept 2006 – Dec 2009**

Research Fellow, University of Sussex **Oct 2003 – Sept 2005**

Working on the NatHab project - a collaboration in Informatics between the Natural Language Processing group and the Software Systems group (with David Weir, Ian Wakeman and Bill Keller)

Trainee patent lawyer, Haseltine Lake & Co. **July 1998 – August 1999**

Education

Brighton University **Oct 2005 – July 2006**

PGCE Mathematics teaching (11-18)

University of Sussex **Oct 2000 – Sept 2003**

DPhil Natural Language Processing, under the supervision of David Weir

Cambridge University **Oct 1999 – Sept 2000**

MPhil Computer Speech and Language Processing

Cambridge University**Oct 1995 – June 1998**MA(Hons) Computer Science, Double 1st**Rochester Grammar School for Girls****Sept 1988 – June 1995**

A-levels in Maths (A), Further Maths (A), Physics (A) and French (A). 9 GCSEs (8 at Grade A)

Experience and skills

- My previous role in the Sussex Humanities Lab required me to collaborate with colleagues in other departments, apply for research funding and organize workshop / events.
- I have been the sole supervisor for one Masters student and am currently co-supervising two Doctoral students.
- I have given invited talks at Queen Mary University of London (January 2016) and Edinburgh (2003)
- I have peer-reviewed for a number of conferences including ACL, COLING, NAACL, EACL and EMNLP. I have also been a reviewer for the Carnegie Trust for the Universities of Scotland.
- I designed the Advanced Natural Language Engineering module (taught to 3rd year undergraduates and postgraduates) from scratch and have now taught it for over 3 years. I am fully conversant with the Sussex Direct and Study Direct systems and large sections of the ANLE Study Direct site are now used in the exemplars for other tutors.
- I have been heavily involved with the design and development of two new modules for the Data Science MSc (Algorithmic Data Science and Data Science Research Methods).
- I have assisted in the teaching of Algorithmics / Program Analysis, Natural Language Engineering, Introduction to Logic, prolog and java.
- Whilst a DPhil student, I was postgraduate rep for 2 years. This included organizing a 3-day conference (with proceedings) for departmental doctoral students which was held external to the University. I also designed and delivered a number of LaTeX workshops for fellow students.
- I have provided private tuition for a variety of subjects including, at undergraduate level, Natural Language Engineering, Databases, Machine Learning and Java; and, at GCSE and A-level, Pure and Applied (Statistics, Mechanics and Decision) Maths
- As a school teacher I was responsible for short and medium term planning for a number of year groups each year. I delivered high quality lessons with differentiated learning objectives, innovative resources and assessment for learning. I also carried out formative and summative assessment, reporting and various other administrative tasks.
- As an A-Level examiner I have had to mark large numbers of responses with high accuracy and to a strict time scale.