Curriculum Vitae - Diana Frances McCarthy

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Education and Qualifications

From Oct 1995 to Sept 2000 DPhil Student at the University of Sussex:

Thesis Title: *Lexical Acquisition at the Syntax-Semantics Interface: Diathesis Alternations, Subcategorization Frames and Selectional Preferences*

The thesis concerns automatic lexical acquisition. Verbs frequently permit their arguments to be expressed syntactically in more than one way. Such verbs are said to exhibit diathesis alternations. In this thesis, I have proposed a method for discovering verbs which participate in diathesis alternations where underlying arguments occur in different grammatical slots in the alternating variants. I show how automatically acquired subcategorization information and automatically acquired selectional preferences can be exploited for this purpose. Selectional preference models are obtained for the grammatical slots, in the alternating frames, between which the arguments switch. I demonstrate a significant relationship between the similarity of the preference models, at the relevant grammatical slots, and verbal participation.

Languages:	Environments
Perl	Poplog, UNIX

Oct 1989 to Sept 1990 M.Sc. in Knowledge Based Systems, The University of Sussex:

Subjects studied include artificial intelligence programming, knowledge representation, natural language processing, neural networks and computer science. My dissertation was a natural language interface to a database.

Languages:	Environments
Prolog, C, POP 11, Lisp, DATR	Poplog, UNIX

1983-1987 Manchester University:
B.Sc.(Hons) (Second Class, Division One) in Speech Pathology. Certificate to

Practise as a Speech Therapist.

1981-1983 Tonbridge Grammar School for Girls, Kent:
3 A 'levels- Mathematics (B), Chemistry (B), Biology (B).

1976 -1981 St. Hilary's School, Sevenoaks, Kent:
9 O'levels.

Work Experience:

From January 2000 until April 2000: Part-Time Tutorial Fellow at the School of Cognitive and Computing Sciences, University of Sussex.

I shared the teaching load for the NLP course offered to MSc students and undergraduates. My duties included lecturing, giving seminars and setting and marking exams.

From May 1996 until November 1998: Part-Time Research Fellow at the School of Cognitive and Computing Sciences, University of Sussex.

I worked on a research project funded by the European Union entitled *SPARKLE: Shallow PARsing and Knowledge Extraction for Language Engineering.* This project involved developing shallow parsers alongside corpus based lexical acquisition techniques for use by other European partners in applications such as Information Retrieval.

From June 1994 to October 1995: Self-Employed Software Engineer.

I worked on a contract basis for a couple of previous employers and also for some other companies.

I also worked as a locum speech and language therapist during this time.

Languages and Development Tools:	Environments
Visual Basic, Syntel, C.	Windows, Unix, VMS, Macintosh MPW.

From June 1993 to April 1994: Senior Knowledge Engineer with Cognitive Systems, Inc.

Cognitive Systems Inc. is based in the USA and I was taken on as the foundling employee for a new office in the UK. The company specialises in two main areas of artificial intelligence - case-based reasoning and natural language processing. I was responsible for managing the UK office and customer base.

Languages and Development Tools:	Environments
C, Visual Basic, ReMind Case-Based Reasoning Shell	Macintosh MPW, VMS, Windows, OS/2

From July 1991 to June 1993: Knowledge Engineer with Syntelligence International Ltd.

The company develops and customises expert systems that perform risk analysis in financial domains built in an in-house language and environment. In July 1992 I was promoted to Senior Knowledge Engineer and I became the technical project leader for the development of a new knowledge base with a large insurance company.

Languages:	Environments
Interlisp-D, Syntel	Unix, DOS, OS/2 v 1.3, CICS

From October 1990 to June 1991: Junior Consultant with Scientia Ltd.

Languages:	Environments
Common Lisp	Macintosh

The company specialises in artificial intelligence applications undertaking a wide variety of projects. I worked on scheduling applications.

1987-1989 Employed as a Speech Therapist by Brighton Health Authority.