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Research Interests

Sentence processing, cognitive modeling, interaction of syntax and working memory, language impairment

Education

2006 – 2012	Ph.D. (<i>magna cum laude</i>) in Cognitive Science, University of Potsdam
1999 – 2001	M. Sc. in Computer Science, University of Mumbai
1996 – 1999	B. Sc. in Mathematics, University of Mumbai

Work Experience

December 2005 – Present
Researcher in the Department of Linguistics, University of Potsdam, Germany

July 2003 – November 2005
Research Engineer in the Department of Computer Science & Engineering, IIT Bombay, India

June 2002 – March 2003
Visiting Lecturer for the M.Sc. in Computer Science in the Department of Computer Science, University of Mumbai, India

June 2001 – March 2002
Visiting Lecturer for the B.Sc. in Computer Science in Mithibai College, University of Mumbai, India

Publications

Papers

Umesh Patil, Shravan Vasishth, and Richard L. Lewis. (Submitted). Retrieval interference in syntactic processing: The case of reflexive binding in English.

Umesh Patil, Sandra Hanne, Shravan Vasishth, Frank Burchert, and Ria De Bleser. (Submitted). A cue-based retrieval model of offline and online sentence processing in aphasia.

Umesh Patil, Shravan Vasishth and Reinhold Kliegl. 2009. Compound effect of probabilistic disambiguation and memory retrievals on sentence processing: Evidence from an eye-tracking corpus. *Proceedings of the 9th International Conference on Cognitive Modeling*, Manchester, UK.

Marisa Ferrara Boston, John Hale, Reinhold Kliegl, Umesh Patil and Shravan Vasishth. 2008. Parsing costs as predictors of reading difficulty: An evaluation using the Potsdam Sentence Corpus. *Journal of Eye Movement Research* 2(1): 1–12.

Umesh Patil, Gerrit Kentner, Anja Gollrad, Frank Kügler, Caroline Fery and Shravan Vasishth. 2008. Focus, word order and intonation in Hindi. *Journal of South Asian Linguistics* 1(1): 55–72.

Peer-reviewed conference presentations and posters

Umesh Patil, Sandra Hanne, Shravan Vasishth and Frank Burchert. 2013. Modeling individual differences in processing deficits in aphasia. Poster presentation at the 26th Annual Meeting of the CUNY Conference on Human Sentence Processing, Columbia, SC, USA.

Umesh Patil, Shravan Vasishth and Richard Lewis. 2012. Early effect of retrieval interference on reflexive binding. Oral presentation at the workshop ‘The timing of grammar: experimental and theoretical considerations’ at the 35th GLOW Colloquium, Potsdam, Germany.

Umesh Patil, Sandra Hanne, Shravan Vasishth, Frank Burchert and Ria De Bleser. 2011. Modeling offline and online (eye movements) sentence comprehension in aphasia using the cue-based retrieval architecture. Oral presentation at the 49th Annual Meeting of the Academy of Aphasia, Montréal, Canada.

Umesh Patil, Shravan Vasishth and Richard Lewis. 2011. Are grammatical constraints immune to retrieval interference? Oral presentation at the 10th International Symposium of Psycholinguistics, Donostia - San Sebastián, Spain.

Umesh Patil, Shravan Vasishth and Richard Lewis. 2011. Early retrieval interference in syntax-guided antecedent search. Oral presentation at the 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Stanford, USA.

Umesh Patil, Sandra Hanne, Shravan Vasishth, Frank Burchert and Ria De Bleser. 2011. Modeling aphasic sentence comprehension in a cue-based retrieval architecture. Poster presentation at the 24th Annual Meeting of the CUNY Conference on Human Sentence Processing, Stanford, USA.

Umesh Patil, Marisa Ferrara Boston, John T. Hale, Shravan Vasishth and Reinhold Kliegl. 2009. The interaction of surprisal and working memory cost during reading. Poster presentation at the 22nd Annual Meeting of the CUNY Conference on Human Sentence Processing, UC Davis, USA.

Umesh Patil, Shravan Vasishth, Brian Bartek and Richard Lewis. 2008. The Interplay of Locality and Surprisal. Poster presentation at the 21st Annual Meeting of the CUNY Conference on Human Sentence Processing, UNC, Chapel Hill, USA.

Shravan Vasishth, Marisa F. Boston, Umesh Patil, John Hale and Reinhold Kliegl. 2007. Integrating Sentence Processing Theory with Eye-movement control models. Poster presentation at the 13th Annual Conference on AMLaP, Turku, Finland.

Skills

Languages: Marathi (native), Hindi (near native), English (fluent), German (beginner)

Programming: R, Java, C, C++, Perl, AWK, Bash, SQL

Operating systems: OS X, Unix/Linux, Windows

Software: ACT-R (computational architecture for cognitive modeling), Praat (software for the analysis of speech), Presentation (software for stimulus delivery and experimental control)