

# Deborah East

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## Education

**Ph.D. in Computer Science**, University of Kentucky, expected May 2001. Ph.D. Thesis: *DATALOG with Constraints: a new Answer-Set Programming Formalism*. Advisor: Dr. Mirosław Truszczyński

**B.S. in Computer Science**, University of Kentucky, 1992. Departmental Honors.

## Professional Experience

**Research Assistant:** (May 1997 - Present), University of Kentucky. General area of research includes non-monotonic logics and knowledge representation. Specific research focused on designing declarative languages for modeling constraint satisfaction problems and developing constraint satisfaction solvers. The work was supported by NSF grants CDA-9502645, IRI-9619233 and EPS-9874764.

**Teaching Assistant:** (Jan 1994 - May 1997), University of Kentucky.  
Recitation for Introduction to Computer Programming  
Recitation for Introduction to Program Design  
Computer Organization  
1st Course in Computer Science for Engineers  
Introduction to Software Engineering

**Computer Scientist:**(May 1991 - Jan 1994), Department of Defense, Logistics Support Activity. Design and development of an expert system to perform level of repair analysis. My work on this project included design, development, testing and analysis of commercial optimization software.

## Research Interests

Developing declarative languages for modeling constraint satisfaction problems and designing constraint satisfaction solvers.  
Software simulations and modeling.

## Teaching Interests

Artificial intelligence, logic, expert systems, logic programming, algorithms, constraint satisfaction.

## Skills

Languages: Pascal, Fortran, C, C++, Java, HTML, Perl, Prolog  
Operating Systems: Unix, DOS, Windows, Prime, Linux  
Utilities, etc: C-scape, ODBC, SQL, MS WORD office, LaTeX

## Awards and Distinctions

Member of UPE National Honor Society for Computing Sciences, Gamma Chapter of Kentucky  
Thaddeus B. Curtz Memorial Scholarship Award in Computer Science, Spring 1994  
Diploma in Computer Sciences with honors, University of Kentucky, 1992

## Professional Organizations

American Association for Artificial Intelligence  
Association for Computing Machinery  
Association for Logic Programming

## Publications

1. *Programming with propositional schemata, computing with SAT solvers*, D. East, M. Truszczyński, Submitted.
2. *More on Wire Routing with ASP*, D. East, M. Truszczyński, 2001 Spring Symposium Working Notes, AAAI Technical Report.
3. *DATALOG with constraints—an answer-set programming system*, D. East, M. Truszczyński, Proceedings of AAAI-2000, MIT Press 2000.

4. *dcs: An Implementation of DATALOG with Constraints*, D. East, M. Truszczyński, Proceedings of the 8th Intl. Workshop on Non-Monotonic Reasoning (NMR2000), Special session on System descriptions and demonstration, April, 2000.
5. *On the accuracy and running time of GSAT*, D. East, M. Truszczyński, Proceedings of the 9th Portuguese Conference on Artificial Intelligence (EPIA'99), published in "Lecture Notes in Artificial Intelligence", September, 1999, volume 1695, by Springer-Verlag.

## Presentations

1. DATALOG with constraints—an answer-set programming system, "AAAI-2000 Seventeenth National Conference on Artificial Intelligence", July 30 -August 3, 2000.
2. *dcs: An Implementation of DATALOG with Constraints*, "Proceedings of the 8th Intl. Workshop on Non-Monotonic Reasoning (NMR2000)", Special session on System descriptions and demonstration, April, 2000.
3. *On the accuracy and running time of GSAT*, "Proceedings of the 9th Portuguese Conference on Artificial Intelligence(EPIA'99)", September, 1999.

## Software

**dcsgrnd** – grounding program for DATALOG with Constraints.  
url: <http://www.cs.uky.edu/~deast>

**dcs** – solver for DATALOG with Constraints.  
url: <http://www.cs.uky.edu/~deast>

**psgrnd** – grounding program for propositional schemata.  
url: <http://www.cs.uky.edu/~deast>

## References

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