

## Marie W. Meteer, Ph.D.

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### EDUCATION

- 1990 Ph.D., Computer Science, University of Massachusetts at Amherst  
Thesis: "The Generation Gap: The Problem of Expressibility in Text Planning"
- 1986 M.S., Computer Science, University of Massachusetts at Amherst
- 1979 M.A., English Linguistics, State University College of NY at Fredonia
- 1977 B.A., English Linguistics, State University College of NY at Fredonia
- 1/02-5/03 Babson College, MBA program. Courses in Marketing, Accounting, Organizational Behavior
- 1/98-5/98 Greater Boston Executive Program, MIT Sloan

### INDUSTRY AND RESEARCH EXPERIENCE

#### 2/2009 – Present      **MM Consulting**

- Consultant** – Working with companies to make strategic decisions to determine the best technology to meet their needs in a variety of applications of speech recognition.
- Prior Art research for patents
  - Seminars to educate companies on speech related technologies
  - Technology and product surveys targeted to specific application areas

**Adjunct Professor, Brandeis University**– Teaching Computational Linguistics and Speech Recognition in Brandeis' graduate program in Computational Linguistics in the Computer Science Department

**Executive Director, Speech Technology Consortium** – a nonprofit association to increase innovation through communication and support for patent IP issues that affect the speech industry

#### 4/2007 – 2/2009      **EveryZing**

**Vice President** – Speech and Content. Responsible for the strategic direction of speech and natural language processing technologies to provide search and media marketing for customers such as Fox, Boston.com, NBC, and the Patriots. Analysis of customer data to determine the best strategy for search engine optimization and content merchandizing. Managed patent

portfolio, identifying patentable technologies and working with the legal team on new patents.

**8/1987 – 4/2007      BBN Technologies**

**Vice President** (6/04 – 4/07) Commercial Speech Solutions, Delta Division. Responsible for technology direction of speech products in both network telephony and large vocabulary speech recognition for search. Product and market evangelism, pre-sales support, product definition, patent portfolio, conduit to BBN R&D team for new technology.

**Department Manager** (6/03 – 6/04) Call Center Speech Solutions Department. Responsible for a new department focused on products aimed at the telephony speech market. Achieved significant year over year growth and profitability.

**Director** (1/00 – 6/03) Program Director for new applications of speech and language technologies in the Customer Contact Center market; business development; negotiating partnerships and VAR agreements; managing the development and delivery of products and services, business planning.

**R&D Manager** (8/98 – 1/00) Speech and Language Processing Department. Directed more than 50 researchers in speech recognition, topic identification, telephone dialog systems, and information extraction from text and speech. Responsible for line management of \$10M in revenue.

**Senior Scientist** (8/93- 8/98) Speech and Language Processing Department. Co-PI of the Large Vocabulary Speech Recognition project, a \$2M per year effort to improve speech recognition performance.

**Scientist** (8/87 - 9/93) Artificial Intelligence Department. Primary developer of the *SPOKESMAN Generation System*, which produced text for several applications, including DARPA's AirLand Battle Management Project.

**ACADEMIC EXPERIENCE**

**1/10 – pres      Brandeis University**

**Adjunct Professor**, Computer Science. Teaching graduate courses in Computational Linguistics and Speech Recognition.

**9/91 - 7/93.      Rensselaer Polytechnic Institute**

**Research Assistant Professor**, Joint position in Computer Science; Language, Literature and Communication; and Philosophy departments to work on the Autopoeisis 2000 project. The goal was computer generation of narratives and stories.

**Courses taught:** Computer Models of Human Language, Logic in Artificial Intelligence, and AI and Text Generation.

**Member of Ph.D. committees:**

David A. Ferrucci, "Towards Effective Interactive Configuration in the Logic-Programming Framework". Computer Science Department. May 1994.

Pat Molholt, "Standardizing Inter-concept Relationships in Knowledge Structuring", Department of Language, Literature, and Communication, August 1994.

Christopher Welty, "Towards Complete Software Information Systems". Computer Science Department. August 1994.

### **9/78 - 8/83 State University College at Fredonia**

**Director, The Learning Center,** Developed and established a program to provide academic support services for the college and community.

**Instructor.** Intermediate Programming I (Pascal) Introduction to Computer Science (BASIC), Introduction to Linguistics, English Composition, Expository Writing, Composition for International Students, Study Skills, Vocabulary Development.

**Office of Continuing Education.** Student advisor, development and administration of non-credit courses, and public relations.

**Teaching Assistant.** English Department, SUC at Fredonia. Taught freshman composition.

### **9/77 - 6/78 University of Lodz, Poland.**

**Instructor.** Taught English as a foreign language to third year college students in the English Institute.

## **PUBLICATIONS**

"Dialogue Act Modeling for Automatic Tagging and Recognition of Conversational Speech", Stolke, Ries, Coccaro, Shriberg, Bates, Jurafsky, Taylor, Martin, Van Ess-Dykema, Meteer, *Computational Linguistics*, 2000

"Sub-Sentence Discourse Models for Conversational Speech Recognition", Kristine W. Ma, George Zavaliagos, Marie Meteer, *Proceedings of International Conference of Acoustics, Speech, and Signal Processing (ICASSP) '98*, May 12-15, 1998

"Modeling Conversational Speech for Speech Recognition", M.Meteer & R.Iyer, in *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, University of Pennsylvania, May 17-18, 1996.

"Assumptions Underlying Discourse Relations: Which ones are really there and where are they?" Marie Meteer. *Proceedings of the ACL Workshop on Intentionality and Structure in Discourse Relations*, 1993.

"Integrating Symbolic and Statistical Approaches in Speech and Natural Language Applications", ACL Workshop: *The Balancing Act, Combining Symbolic and Statistical Approaches to Language*, July 1, 1994.

- "Spotting Events in Continuous Speech" P.Jeanrenaud, M.Siu, J.R.Rohlicek, M. Meteer, and H. Gish. *ICASSP*. 1994
- "Statistical Language Modeling Combining N-gram and Context-free Grammars", M. Meteer & R. Rohlicek. *ICASSP*, 1993
- "Coping with Ambiguity and Unknown Words Through Probabilistic Models", R. Weischedel, M. Meteer, & R. Schwartz, *Computational Linguistics*, June, 1993.
- Expressibility and the Problem of Efficient Text Planning. Pinter Publishers, London, England, 1992.
- "Portable Natural Language Generation using SPOKESMAN" M. Meteer, *Proceedings of the 3rd Conference on Applications in Natural Language Processing*, Trento, Italy, April, 4-6, 1992
- "Gisting Conversational Speech", J.R.Rohlicek, D.Ayuso, M.Bates, R.Bobrow, A.Boulanger, H.Gish, P.Jeanrenaud, M.Meteer, M.Siu, in *ICASSP*, Mar. 23-26, 1992, Vol.2, pp. 113-116
- "Bridging the 'Generation Gap' between Text Planning and Linguistic Realization," M. Meteer. *Computational Intelligence*. 7(4) Special issue on Natural Language Generation, 1992.
- "Evaluation for Generation", M.Meteer & D.McDonald in *Proceedings of the Natural Language Processing Systems Evaluation Workshops*, Berkeley, California, June 18, 1991.
- "SPOKESMAN: Data Driven, Object Oriented Natural Language Generation", M. Meteer. *Proceedings of the Seventh IEEE Conference on Artificial Intelligence Applications*, Miami Beach, Florida, February 26-28, 1991.
- "The Implications of Revisions in Natural Language Generation". M. Meteer in *Natural Language Generation in Artificial Intelligence and Computational Linguistics*. Eds. Cecile Paris, William Swartout and William Mann. Kluwer Academic Publishers. Boston, Massachusetts. 1991.
- "POST: Using Probabilities in Language Processing". M. Meteer, R. Weischedel, and R. Schwartz. *Proceedings of IJCAI 91*. Sidney, Australia, 1991.
- "Abstract Linguistic Resources for Text Planning", M. Meteer *Proceedings of the Fifth International Workshop on Text Generation*, Pittsburgh, Pennsylvania. 1990.
- The Generation Gap: The problem of expressibility in text planning*. Ph.D. thesis, Computer and Information Sciences Department, University of Massachusetts, Amherst, Massachusetts. February 1990.
- "Towards Understanding Text with a Very Large Vocabulary". Ayuso, Damaris, R. Bobrow, D. MacLaughlin, M.Meteer, L. Ramshaw, R. Schwatrz, R. Weischedel. In *Proceedings of the Speech and Natural Language Workshop*, Morgan Kaufmann Publishers, Inc., 1990

- Review of *Advances in Natural Language Generation*, Zock & Sabeh (eds.)  
*Computational Linguistics*, Vol. 15. No. 2. p. 120-122. 1989
- The SPOKESMAN Natural Language Generation System*, BBN Technical Report  
7090. 1989.
- "Block Text Generation in ALBM" ALBM Technical Report. Lockheed Austin  
Division, Austin, Texas. 1989.
- "Defining a Vocabulary for Text Planning". M. Meteer. *Proceedings of the  
AAAI-88 Workshop on Text Planning and Generation*, St. Paul, Minnesota,  
August 25, 1988.
- "Strategies for Effective Paraphrasing", M. Meteer & Varda Shaked (1988)  
*Proceedings of COLING-88*, Budapest, Hungary. 1988.
- "From Water to Wine: Generating Natural Language Text from Today's  
Applications Programs", McDonald, David D. & M. Meteer, *Proceedings of  
the 2nd Conference on Applied Natural Language Processing*, Univ. of  
Texas at Austin, February 9-11, 1987.
- "Factors Contributing to Efficiency in Natural Language Generation", McDonald,  
David D., M. Meteer and James D. Pustejovsky, in Kempen (ed.) *Natural  
Language Generation*, Martinus Nijhoff Publishers, Dordrecht, The  
Netherlands, p. 159-182. 1987.
- "Constraints on the Generation of Adjunct Clauses", Huettner, Alison K., M.  
Meteer & McDonald, D.D. (1987) in *Proceedings of the 25th Annual  
Meeting of the Association for Computational Linguistics*, July 1987.
- Mumble-86: Design and Implementation*, M. Meteer, David D. McDonald,  
Scott Anderson, David Forster, Linda Gay, Alison Huettner, Penelope  
Sibun, UMass Technical Report 87-87, 173 pgs. 1987.
- "A Model of Revision in Natural Language Generation", M. Meteer & David D.  
McDonald in *Proceedings of the 24th Annual Meeting of the Association for  
Computational Linguistics*, pp. 90-96., 1986
- The Writing Process as a Model for Natural Language Generation*. M. Meteer,  
Master's Thesis, University of Massachusetts, Amherst. 1985.

## **SELECTED PANELS AND PRESENTATIONS**

- 2010 Mobile Voice Conference, Patent Policies panel: Speech Technology  
Consortium - Building the Prior Art Library to Enable Better Patent Application  
Examinations
- 2008 Voice Search Conference presentation: Speech recognition in the  
Enterprise
- 2006 Spechtek panel presentation "Speech Recognition: The key to the  
content for multimedia search"

- 2005 Speechtek 2005 tutorial presentation on "Natural Language: When do you need it and How do you know when it's working?"
- 2003 Edify "Listen to your customers! Advanced speech and language technology gives your customers a voice"
- 2002 Call Center Demo & Conference, panel on "Self-Service Alternatives In An Increasingly Demanding Market"
- 2001 SpeechTek, panel on "Speech and Knowledge Management"
- 2000 "Making the Journey from Technical to Management - An Insider's Perspective", presentation to Women in Technology in the Verizon Technology Organization
- 2000 Grace Hopper Celebration of Women in Computing, panel on "Women in Management: Their Perspective"
- 2000 "The Voice of Technology: Bringing Speech Recognition from the Lab to the Marketplace" Keynote address for Boston University's Pathways conference for High School girls to introduce them to careers in science and technology.

## **PATENTS**

- 7,274,776 - 9/25/2007 Methods and Systems for Routing a Call
- 6,898,277 - 5/24/2005 System and Method for Annotating Recorded Information from Contacts to Contact Center
- 11/522,645 - 9/18/2006 Method and Apparatus for Updating Speech Recognition Databases and Reindexing Audio and Video Content using the Same (Pending)
- 11/446,549 - 6/2/2006 Method and Apparatus for Providing Virtual Media Channels based on Media Search (Pending)

## **PROFESSIONAL ACTIVITIES AND AFFILIATIONS**

- General Chair, Applied Natural Language Processing and North American Association for Computational Linguistics Conference, Seattle, WA, 2000
- Program Committee Member, Association for Computational Linguistics conference, Boston, MA, 1997
- Member, Program Committee, International Joint Conference on Artificial Intelligence, 1995
- Member, Program Committee, 32nd Annual Meeting of the Association for Computational Linguistics, June 1994, Las Cruces, New Mexico
- Member, Organizing Committee, 7th International Workshop on Natural Language Generation, June 1994, Kennebunkport, Maine
- Co-Organizer, SIGGEN, Special Interest Group for Natural Language Generation

Co-Organizer, IJCAI-91 Workshop: Decision Making throughout the  
Generation Process

Co-Organizer, AAI-90 Workshop: Evaluation of Natural Language Generation  
Systems