

**Marie W. Meteer, Ph.D.**

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## QUALIFICATIONS

**Deep technical expertise** in speech recognition, natural language processing, dialog management, text generation, language analytics, and machine learning.

**Technical, project, and product management experience.** Proven ability to bring products to market and successfully grow a commercial business in a highly competitive environment.

## EXPERIENCE

### Brandeis University, Computational Linguistics and Computer Science

Associate Professor of Practice 2016 - Present

Teaching: Annotation for Machine Learning, Speech Recognition, Fundamentals of Computational Linguistics, Dialog Design, seminars in advanced topics.

Industry Liaison, creating opportunities for students to meet technologist from area companies looking for interns and employees in computational linguistics and machine learning.

Mentoring students on resumes, interviews, and finalizing job prospects.

Adjunct Professor 2010 - 2016

Teaching: Fundamentals of Computational Linguistics, Speech Recognition, and Annotation for Machine Learning, Dialog Design.

**MM Consulting** 2009 - present

**Independent Consultant:** Working with companies to apply innovative speech and language processing technologies to challenging problems in a range of industries including medical, call center, mobile voice applications, media mining, and air traffic control.

Current projects include:

**McLean Hospital:** Consultant on NIH funded project using machine learning for information extraction from medical health records of psychiatric patients to improve prediction of outcome. Supervising Brandeis student intern.

**Partner's Healthcare:** Consultant on Brigham and Women's Hospital AHRQ project "NLP to Improve Accuracy and Quality of Dictated Medical Documents" (Grant number R01 HS024264).

**BBN Avoke:** Consultant on Call Center Analytics projects, developing statistical language models for multiple languages (English, European and Asian languages) and using unsupervised and semi-supervised topic modeling to analyze calls.

**NavCanada:** Provide technical support on the use of speech recognition in Air Traffic Control training and simulation software and help design training materials for instructors and users.

Previous clients include: CallMiner, Ditech Networks, General Catalyst, RAMP Holdings, Speech Morphing, Transcend, UFA, US Department of Justice, Vlingo, Xtone.

**Ramp Holdings (previously EveryZing)** 2007-09

**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 legal.

## **BBN Technologies**

1987 - 2007

**Vice President** (2004 - 2007) Commercial Speech Solutions. 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, conduit to BBN R&D team for new technology, product definition, patent portfolio.

**Department Manager** (2003 - 2004) 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** (2000 - 2003) 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** (1998 - 2000) 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** (1993- 1998) Speech and Language Processing Department. Co-PI of the Large Vocabulary Speech Recognition project, a \$2M per year effort to improve performance.

**Scientist** (1987 - 1993) Artificial Intelligence Department. Primary developer of the *SPOKESMAN Generation System*, which produced text for several applications, including DARPA's AirLand Battle Management Project.

## **EDUCATION**

Ph.D. in Computer Science, University of Massachusetts at Amherst

M.S. in Computer Science, University of Massachusetts at Amherst

M.A. in English Linguistics, State University College of NY at Fredonia

B.A. in English Linguistics, State University College of NY at Fredonia

## **SELECTED PANELS AND PRESENTATIONS**

2017 Conversational Interactions, *Building Mobile Voice Applications: A study in 9 weeks*

2016 Mobile Voice Conference, *Assessing Dialog Management Systems*

2015 Mobile Voice Conference, *Creating an Advanced Dialog Application*

2014 Mobile Voice, *What makes an "Advanced Dialog" Advanced?*

2012 Bio NLP Workshop, *MedLingMap: A growing resource mapping the Bio-Medical NLP field*

2012 Bio NLP Workshop, *What can NLP tell us about BioNLP* (student paper)

2012 Mobile Voice, *More data or more knowledge: How to move speech recognition forward?*

2010 US Patent and Trademark Office, *Prior Art Research in Speech Technology*

## **PATENTS**

9,697,231 2017 Methods and apparatus for providing virtual media channels based on media search

8,312,022 2012 Search engine optimization

7,274,776 2007 Methods and systems for routing a call

6,898,277 2005 System and method for annotating recorded information from contacts to contact center