

Jennifer J. Venditti

Research Interests: Acoustic and articulatory phonetics, language disorders, laboratory phonology, spoken language processing, intonation theory and modeling, cognitive science, computational and experimental psycholinguistics, discourse structure and reference resolution, prosodic interference and transfer, under-studied languages.

Career History

EDUCATION

- 2006–present Communication Disorders and Sciences (Speech Pathology), San Jose State Univ.
- Ph.D. 2000 Linguistics (Phonetics), Ohio State University. Columbus, OH.
Dissertation: *Discourse Structure and Attentional Salience Effects on Japanese Intonation*. Adviser: Dr. Mary E. Beckman.
- M.A. 1993 East Asian Languages and Literatures (Japanese Linguistics), Ohio State Univ.
- B.A. 1991 *magna cum laude*. Oriental Languages and Literatures (Japanese Studies), University of Colorado at Boulder.
- 1990 Japanese Language Summer Seminar, Middlebury College. Middlebury, VT.
- 1989–1990 Program in Japanese Studies, one year exchange. Kansai University of Foreign Studies. Osaka, Japan.

ACADEMIC EMPLOYMENT

- 2007, Summer LSA Linguistic Institute, Stanford University. Palo Alto, CA.
Instructor. Course: *Introduction to Prosodic Labeling* (pre-session course).
- 2002–2006 Computer Science, Columbia University. New York, NY.
Research Consultant (1/2005–4/2006), NSF grant 0328295.
Associate Research Scientist (12/2003–12/2004), NSF grant 0328295.
Postdoctoral Research Scientist (11/2002–5/2003).
Project: *Recognizing student ‘state’ in tutorial dialogs, automatic detection of emotion in speech, computational psycholinguistics and spoken language processing*.
(Collaborated with Dr. Julia Hirschberg.)
- 2001–2002 Institute for Research in Cognitive Science, University of Pennsylvania.
Postdoctoral Research Fellow, NSF grant SBR 8920230.
Project: *Investigation of intonational and discourse structure constraints on the on-line interpretation of accented pronouns*.
(Collaborated with Dr. John Trueswell.)
- 2000–2001 Center for Cognitive Science, Rutgers University. New Brunswick, NJ.
Postdoctoral Research Fellow, NIH Training Grant 1-T32-MH-19975-03.
Project: *Investigation of the on-line interpretation of accented pronouns in discourse using eye-tracking*.
(Collaborated with Dr. Matthew Stone.)

- 2000, Autumn Center for Cognitive Science, Rutgers University. New Brunswick, NJ.
Guest Lecturer. Course: *Intonation Description Using the English ToBI Framework: A Hands-on Tutorial.*
- 1999, Autumn Linguistics, City University of New York Graduate Center. New York, NY.
Visiting Lecturer. Course: *English ToBI Prosodic Analysis.*
- 1997, Jan–June Linguistics, Ohio State University. Columbus, OH.
Teaching Associate. Course: *Introduction to Language in the Humanities.*
- 1994, Autumn Linguistics, Ohio State University. Columbus, OH.
Teaching Associate. Course: *Introduction to Phonetics.*
Supervisor: Dr. Keith Johnson.
- 1993, 1996, 1997 Linguistics, Ohio State University. Columbus, OH.
Research Associate. Projects: 1. *Investigation of form and meaning of English intonation tunes*, 2. *Exercises for A Laboratory Course in Phonology textbook*, 3. *Laboratory phonology and phonetics*, 4. *English ToBI prosodic transcription.* Supervisor: Dr. Mary E. Beckman.
- 1996, Autumn Linguistics, Ohio State University. Columbus, OH.
Research Associate. Project: *Phonetics and phonology of Maltese Arabic vowels.*
Supervisor: Dr. Elizabeth Hume.
- 1995–1996 International Studies, Osaka Gakuin University. Osaka, Japan.
Visiting Lecturer. Course: *Introductory Spoken English.*
- 1991–1993 East Asian Languages and Literatures, Ohio State University. Columbus, OH.
Teaching Associate. Courses: 1. *Modern Japanese Literature*, 2. *Japanese Culture*, 3. *Second-year Japanese language.* Supervisors: Dr. Richard Torrence, Dr. William Tyler, and Dr. Mari Noda.
- 1992, Jan–June East Asian Languages and Literatures, Ohio State University. Columbus, OH.
Research Associate. Projects: 1. *Japanese literature*, 2. *Japanese Noh theater.* Supervisors: Dr. Shelly Quinn, Dr. James Morita, Dr. Richard Torrence.

INDUSTRIAL EMPLOYMENT

- 1998–2000 Lucent Technologies Bell Laboratories. Murray Hill, NJ.
Full-time Research Consultant, Language Modeling Research Department. Project: *Intonation and duration modeling for Japanese speech synthesis.* Supervisors: Dr. Jan van Santen and Dr. Joseph Olive.
- 2000, Sept AT&T Research Laboratories. Florham Park, NJ.
Part-time Consultant, DARPA Communicator Project. Project: *English ToBI intonation labeling.* Supervisor: Dr. Julia Hirschberg.
- 1994, 1996 Lucent Technologies Bell Laboratories. Murray Hill, NJ.
Member of Technical Staff (Level 1), Speech Synthesis Department. Project: *Intonation component of Japanese text-to-speech synthesizer.* Supervisors: Dr. Julia Hirschberg, Dr. Chilin Shih and Dr. Joseph Olive.
- 1995–1996 ATR Interpreting Telecommunications Research Laboratories. Kyoto, Japan.
Part-time Research Assistant, Speech Synthesis Department. Project: *Japanese ToBI prosodic labeling and intonation synthesis.* Supervisor: Dr. Nick Campbell.

Grants Awarded

Monitoring Student State in Tutorial Spoken Dialogue. NSF #0328295. PI: Julia Hirschberg, co-PI: Jennifer Venditti. (In collaboration with Diane Litman, Katherine Forbes, and Scott Silliman (University of Pittsburgh Learning Research and Development Center)). 2003–2006.

Recognizing and Understanding Emotion in Speech. NSF/DHS #0325399. PI: Julia Hirschberg, co-PIs: Daniel Jurafsky, Bryan Pellom, Elizabeth Shriberg, Jennifer Venditti. 2003–2007.

Academic Distinctions and Awards

Presidential Fellowship, Jan-Dec 1999. Sponsored by the Graduate School, Ohio State University.

Graduate Student Alumni Research Award, 1998. Sponsored by the Graduate School, Ohio State Univ.

Title VI Foreign Language and Area Studies Fellowship (Japanese), academic years 1993/94 and 1994/95. Sponsored by the U.S. Department of Education.

Summer Research Fellowship in Cognitive Science, 1992. Sponsored by the Center for Cognitive Science, Ohio State University.

Japan Studies Scholarship, 1989. Sponsored by the Japan Studies Foundation.

Study Abroad Scholarship, 1989. Sponsored by the Office of International Education, University of Colorado at Boulder.

Publications (Available at: <http://web.mac.com/jen.venditti>)

IN PREPARATION

Beckman, M.E. and J.J. Venditti. Tone and intonation. In W. Hardcastle (ed.) *Handbook of Phonetic Sciences*. Blackwell Publishers.

Venditti, Jennifer J., John Trueswell and Matthew Stone. On-line interpretation of accented pronouns in context.

Venditti, Jennifer J., Kazuaki Maeda and Jan P. H. van Santen. Form and function of Japanese boundary pitch movements.

2007

Venditti, Jennifer J., Kikuo Maekawa and Mary E. Beckman. (in press) Prominence marking in the Japanese intonation system. In S. Miyagawa and M. Saito (eds.) *Handbook of Japanese Linguistics*. Oxford University Press.

2006

Venditti, Jennifer J. (2006) Prosody in sentence processing. In R. Mazuka, M. Nakayama and Y. Shirai (eds.) *The Handbook of East Asian Psycholinguistics, Volume II: Japanese*. Cambridge University Press.

Venditti, Jennifer J., Julia Hirschberg, and Jackson Liscombe. (2006) Intonational cues to student questions in tutoring dialogs. In *Proceedings of Interspeech (ICSLP)*. Pittsburgh, Pennsylvania.

Liscombe, Jackson, Jennifer J. Venditti and Julia Hirschberg. (2006) Detecting Question-Bearing Turns in Spoken Tutorial Dialogues. In *Proceedings of Interspeech (ICSLP)*. Pittsburgh, Pennsylvania. (**Awarded Best Student Paper**).

2005

Venditti, Jennifer J. (2005) The J_ToBI model of Japanese intonation. In S.-A. Jun (ed.) *Prosodic Typology: The Phonology and Intonation of Phrasing*, pp. 172–200. Oxford University Press.

Liscombe, Jackson, Julia Hirschberg, and Jennifer J. Venditti. (2005) Detecting certainness in spoken tutorial dialogues. In *Proceedings of Interspeech (Eurospeech)*. Lisbon, Portugal.

2004

DeCarlo, Douglas, Matthew Stone, Corey Revilla and Jennifer J. Venditti. (2004) Specifying and animating facial signals for discourse in embodied conversational agents. *Computer Animation and Virtual Worlds* 15(1): 27–38.

2003

Venditti, Jennifer J. and Julia Hirschberg. (2003) Intonation and discourse processing. Invited paper in *Proceedings of the International Congress of Phonetic Sciences (ICPhS)*. Barcelona, Spain.

Liscombe, Jackson, Jennifer J. Venditti and Julia Hirschberg. (2003) Classifying subject ratings of emotional speech using acoustic features. In *Proceedings of Eurospeech*. Geneva, Switzerland.

Hirschberg, Julia, Jackson Liscombe and Jennifer J. Venditti. (2003) Experiments in emotional speech. Invited paper in *Proceedings of the ISCA and IEEE Workshop on Spontaneous Speech Processing and Recognition*. Tokyo, Japan.

2002

Maekawa, Kikuo, Hideaki Kikuchi, Yosuke Igarashi, and Jennifer J. Venditti. (2002) X-JToBI: An extended J-ToBI for spontaneous speech. In *Proceedings of the 2002 International Conference on Spoken Language Processing (ICSLP)*. Denver, Colorado.

Venditti, Jennifer J., Matthew Stone, Preetham Nanda and Paul Tepper. (2002) Discourse constraints on the interpretation of nuclear-accented pronouns. In *Proceedings of the 2002 International Conference on Speech Prosody*. Aix-en-Provence, France.

DeCarlo, Douglas, Corey Revilla, Matthew Stone and Jennifer J. Venditti. (2002) Making discourse visible: Coding and animating conversational facial displays. In *Proceedings of the 2002 Conference on Computer Animation*, pp. 11–16. Geneva, Switzerland.

Venditti, Jennifer J. and Paul Tepper. (2002) AnimStim: Picture stimuli of animal characters for use in eye-tracking experiments. Unpublished database, University of Pennsylvania.

2001

Venditti, Jennifer J., Matthew Stone, Preetham Nanda and Paul Tepper. (2001) Toward an account of accented pronoun interpretation in discourse context: Evidence from eye-tracking. Technical Report (TR 68), Rutgers Center for Cognitive Science.

2000

Venditti, Jennifer J. and Jan P. H. van Santen. (2000) Japanese intonation synthesis using superposition and linear alignment models. In *Proceedings of the 2000 International Conference on Spoken Language Processing (ICSLP)*. Beijing, China.

Beckman, M. E. and Jennifer J. Venditti. (2000) Tagging prosody and discourse structure in elicited spontaneous speech. In *Proceedings of the Science and Technology Agency Priority Program Symposium on Spontaneous Speech: Corpus and Processing Technology*, pp. 87–98. Tokyo, Japan. [Also printed in

slightly revised form in C. Roberts, T. Huang, and J. Muller (eds.), *Ohio State Working Papers in Linguistics* 54: 1-24.]

Venditti, Jennifer J. (2000a) *Discourse Structure and Attentional Saliency Effects on Japanese Intonation*. Ph.D. dissertation, Ohio State University.

Venditti, Jennifer J. (2000b) Modeling phrasal F0 peak height for Japanese TTS. Technical Report, Lucent Technologies Bell Laboratories.

1998

Venditti, Jennifer J. and Jan P. H. van Santen. (1998a) Modeling segmental durations for Japanese text-to-speech synthesis. In *Proceedings of the 3rd ESCA Workshop on Speech Synthesis*, pp. 31–36. Jenolan Caves, Australia.

Venditti, Jennifer J. and Jan P. H. van Santen. (1998b) Modeling vowel duration for Japanese text-to-speech synthesis. In *Proceedings of the 1998 International Conference on Spoken Language Processing (ICSLP)*. Sydney, Australia.

Venditti, Jennifer J., Kazuaki Maeda and Jan P. H. van Santen. (1998) Modeling Japanese boundary pitch movements for speech synthesis. In *Proceedings of the 3rd ESCA Workshop on Speech Synthesis*, pp. 317–322. Jenolan Caves, Australia.

Maeda, Kazuaki and Jennifer J. Venditti. (1998) Phonetic investigation of boundary pitch movements in Japanese. In *Proceedings of the 1998 International Conference on Spoken Language Processing (ICSLP)*. Sydney, Australia.

van Santen, Jan P. H., Bernd Möbius, Jennifer J. Venditti, and Chilin Shih. (1998) Description of the Bell Labs Intonation System. In *Proceedings of the 3rd ESCA Workshop on Speech Synthesis*, pp. 293–298. Jenolan Caves, Australia.

1997

Venditti, Jennifer J. (1997) Japanese ToBI Labelling Guidelines. In K. Ainsworth-Darnell and M. D'Imperio (eds.) *Papers from the Linguistics Laboratory. Ohio State University Working Papers in Linguistics* 50: 127–162. [First distributed in 1995 at: <http://ling.ohio-state.edu/research/phonetics/J-ToBI/>]

1996

Venditti, Jennifer J., Sun-Ah Jun and Mary E. Beckman. (1996) Prosodic cues to syntactic and other linguistic structures in Japanese, Korean and English. In J. Morgan and K. Demuth (eds.) *Signal to Syntax: Bootstrapping from Speech to Grammar in Early Acquisition*, pp. 287–311. Lawrence Erlbaum Publishers.

Venditti, Jennifer J. and Marc Swerts. (1996) Intonational cues to discourse structure in Japanese. In *Proceedings of the 1996 International Conference on Spoken Language Processing (ICSLP)*, vol. 2: 725–728. Philadelphia, Pennsylvania.

1995

Campbell, Nick and Jennifer J. Venditti. (1995) J-ToBI: an intonation labelling system for Japanese. In *Proceedings of the Autumn 1995 meeting of the Acoustical Society of Japan (ASJ)*, vol. 1: 317–318. Utsumiya, Japan.

1994

Venditti, Jennifer J. and Hiroko Yamashita. (1994a) Prosodic information and processing of temporarily ambiguous constructions in Japanese. In *Proceedings of the 1994 International Conference on Spoken Language Processing (ICSLP)*, vol. 3: 1147–1150. Yokohama, Japan.

Venditti, Jennifer J. and Hiroko Yamashita. (1994b) Prosodic information and processing of complex NPs in Japanese. In H. Ura and M. Koizumi (eds.) *Proceedings of the First Conference on Formal Approaches to Japanese Linguistics. MIT Working Papers in Linguistics 24*: 375–391.

Venditti, Jennifer J. (1994) The influence of syntax on prosodic structure in Japanese. In J.J. Venditti (ed.) *Papers from the Linguistics Laboratory. Ohio State University Working Papers in Linguistics 44*: 191–223.

Edited Publications

Venditti, Jennifer J. (1994) *Papers from the Linguistics Laboratory. Ohio State University Working Papers in Linguistics*, vol. 44.

Invited Talks

“Accented pronouns and presupposition resolution”. Rutgers University, Department of Linguistics Semantics Research Group. March 12, 2002.

“Another look at accented pronouns: Evidence from eye-tracking”. University of Rochester, Department of Brain and Cognitive Sciences. March 4, 2002.

“Toward an account of accented pronoun interpretation in discourse context: Evidence from eye-tracking”. University of Delaware, Department of Linguistics. November 28, 2001.

“On-line interpretation of accented pronouns in discourse context” (with Matthew Stone). Psycholinguistics Colloquium. CUNY Graduate Center, Department of Linguistics. November 6, 2001.

“Intonational cues to discourse salience in English and Japanese”. University of California at San Diego, Department of Linguistics. February 15, 2001.

“Japanese ToBI as a tool for intonation research: Description of the tagging scheme and suggestions for improvement”. International Symposium on the Prosodic Labeling of Spontaneous Japanese Speech. *Kokuritsu Kokugo Kenkyūjo* (National Language Research Institute), Tokyo, Japan. November 14, 2000.

“The role of intonation in cueing discourse prominence in English and Japanese”. Psycholinguistics Colloquium. CUNY Graduate Center, Department of Linguistics. May 2, 2000.

“Prosodic modeling for multilingual speech synthesis”. Dragon Systems, Inc. January 17, 2000.

“The J-ToBI model of Japanese intonation”. Workshop on Intonation: Models and ToBI labeling. Satellite to the International Congress of Phonetic Sciences. San Francisco. August 1, 1999.

“Phonetic investigation of boundary pitch movements in Japanese”. UCLA Seminar in Phonetics. University of California at Los Angeles. November 23, 1998.

“*J-ToBI o tsukatta nihongo no intonēshon no raberingu* (Intonation labelling using J-ToBI)”. *Kokuritsu Kokugo Kenkyūjo* (National Language Research Institute), Tokyo, Japan. March 8, 1996.

“*Nihongo on'inritsu raberingu no shuhō o mochīta spontaneous speech no kaiseki* (Analysis of spontaneous speech data using the Japanese ToBI labelling scheme)”. *Onsei bunpō kenkyūkai* (Working Group on the

Grammar of Speech). Research Institute of Speech and Language, Nara, Japan. November 4, 1995.

“Prosodic cues to temporarily ambiguous constructions in Japanese”. (with Hiroko Yamashita) Center for Cognitive Science Psycholinguistics Colloquium. Ohio State University. October 22, 1993.

Conference Presentations and Demos (unless listed under publications)

“On-line accented pronoun interpretation in discourse context”. (with John Trueswell, Matthew Stone, and Katherine Nautiyal) Special session on Reference, Sixteenth Annual CUNY Conference on Human Sentence Processing. Massachusetts Institute of Technology. March 29, 2003.

“Facial displays in conversational agents”. (with Matthew Stone, Niki Shah, Chris Dymek and Nathan Folsom–Kovarik) Rutgers Department of Computer Science Open House. Spring 2001.

“The phonetics of Maltese *gh*”. (with Elizabeth Hume) Arabic International Dialectology Association. University of Malta, Lija, Malta. March 30, 1998.

“Phonetic and phonological analysis of boundary pitch movements in Japanese”. (with Kazuaki Maeda) Twenty Second Annual Penn Linguistics Colloquium. University of Pennsylvania. February 27, 1998.

“Effects of discourse structure on F0 in Japanese: Raising vs. lowering”. Autumn meeting of the Acoustical Society of America. Honolulu, Hawaii. December 2–6, 1996.

“Prosodic characteristics of temporarily ambiguous constructions in Japanese”. (with Hiroko Yamashita) Seventh Annual CUNY Conference on Human Sentence Processing. CUNY Graduate Center. March 17–19, 1994.

Invited Class Lectures

Speech basics for computational linguistics, Graduate Natural Language Processing (Instructor: Dr. Julia Hirschberg). Columbia University Computer Science, Fall 2002.

Investigating on-line processing of referring expressions using eye-tracking, Undergraduate Workshop in Cognitive Science and Cognitive Neuroscience. Univ. of Pennsylvania Institute for Research in Cognitive Science, Summer 2002.

Intonation and discourse, Undergraduate Workshop in Cognitive Science and Cognitive Neuroscience. Univ. of Pennsylvania Institute for Research in Cognitive Science, Summer 2002.

Introduction to intonational meaning, Undergraduate Cognitive Science Proseminar (Instructor: Dr. Karin Stromswold). Rutgers Center for Cognitive Science, Spring 2001.

Introduction to intonational structure for psycholinguists, Graduate Psycholinguistics Seminar (Instructor: Dr. Janet Fodor). CUNY Graduate Center, 1998.

Professional Activities

Current Society Memberships:

Linguistic Society of America (LSA)

National Student Speech Language Hearing Association (NSSHLA)

ASHA Special Interest Division Memberships:

Division 2: Neurophysiology and Neurogenic Speech and Language Disorders

Division 3: Voice and Voice Disorders

Division 5: Speech Science and Orofacial Disorders

Reviewing:

Computational Linguistics
Journal of Japanese Linguistics
Language
Language and Speech
Speech Communication
CUNY Conference on Human Sentence Processing
European Association for Computational Linguistics
Interspeech 2006 Scientific Review Committee
Japanese/Korean Linguistics Conference

Academic/Community Service:

Actors for Autism: Joey Travolta's Short Film Camp
Sponsored by Stepping Stones Center for Autistic Spectrum Disorders, Summer 2007.
Preschool speech and language screening
Sponsored by the Autism Tree Project Foundation, 2007.
ToBI annotation scheme email question 'hotline', 2005–present.
Technical Manager, Rutgers Linguistics Phonetics Computer Laboratory, 2000–2001.
OSU Computational Linguistics Search Committee, 1996–1997.
Recording *Language Files* text for students with visual impairment, 1997.
OSU Linguistics Laboratory Computing Committee, 1994–1995.
Ohio State Dissertations in Linguistics (OSDL), 1994–1997.
OSU Council of Graduate Students, 1991–1992.

Clinical Experience

Preschool speech and language screening

Sponsored by the Autism Tree Project Foundation, 2007.

Clinical practicum in Audiology

Hearing screening, Fall 2007.

Postdoctoral Coursework

M.A. Program in Speech Pathology. Communication Disorders and Sciences, San Jose State Univ.*

Speech Perception and Production in Infancy. Stanford University, LSA Linguistic Institute.

Drs. Marilyn Vihman and Rory DePaolis, Summer 2007.†

Pronunciation Variation and Psycholinguistics. Stanford University, LSA Linguistic Institute.

Dr. Susanne Gahl, Summer 2007.†

Developmental Psychology (Conception through Early Childhood). De Anza College.

Dr. Juanita Cordero, Spring 2006.*

Developmental Psychology (Middle Childhood through Adolescence). De Anza College.

Dr. Nanette Wylde, Spring 2006.*

Language Disorders in Children. Columbia Teachers College. Dr. Lesley Wolk, Spring 2003.†

Natural Language Processing. Columbia University. Dr. Julia Hirschberg, Fall 2002.†

Nonparametric Statistics. University of Pennsylvania (Wharton). Dr. Paul Rosenbaum, Spring 2002.†

Computational Linguistics. University of Pennsylvania. Dr. Steven Bird, Fall 2001.†

Formal Methods in Linguistics. Rutgers University. Dr. Bruce Tesar, Spring 2001.†

(* Courses taken for credit. † Courses not taken for credit.)

ASHA Continuing Education

Special Interest Division Perspectives:

Division 2: Neurophysiology and Neurogenic Speech and Language Disorders

June 2007 (0.2 CEUs, intermediate level, basic communication processes area)

Division 5: Speech Science and Orofacial Disorders
July 2007 (0.1 CEUs, intermediate level, professional area)

Undergraduate Student Project Advising

Design and implementation of Perl programs for analysis of speech data. Preetham Nanda, Computer Science undergraduate. Rutgers Center for Cognitive Science, summer 2001.

Facial displays in conversational agents: The relation of intonation to eyebrow and head movements. Chris Dymek and Nathan Folsom-Kovarik, Computer Science undergraduates. Rutgers Center for Cognitive Science, 2000-2001. Primary adviser: Dr. Matthew Stone.

Queries in natural language dialog systems: Acoustic-prosodic comparison of direct and indirect requests. Jill Nickerson, Computer Science undergraduate. Bell Laboratories Dialog Systems Department, summer 1998. Primary adviser: Dr. Jennifer Chu-Carroll.

Fieldwork

Japanese: phonetics, phonology, intonation, pragmatics, discourse

Huaila–Huanca Quechua: phonetics, phonology, morphology, syntax, intonation

Maltese Arabic: phonetics, phonology