

LAURA MAYFIELD TOMOKIYO

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Education

Carnegie Mellon University *Pittsburgh, PA*
January, 1997 - May, 2001

Ph.D. in Language and Information Technologies. Dissertation entitled "Recognizing Non-native Speech: Characterizing and Adapting to Non-native Usage in Speech Recognition."

http://www.cs.cmu.edu/~laura/thesis_summary.ps

Carnegie Mellon University *Pittsburgh, PA*
September, 1994 - May, 1996

M.S. in Computational Linguistics. Thesis research in fast and careless continuous speech. Coursework includes Speech Recognition, Natural Language Processing, Artificial Intelligence, Syntax, Semantics, Logic, Phonetics, Phonology. Additional coursework in German, Chinese.

Massachusetts Institute of Technology *Cambridge, MA*
September, 1988 - June, 1991

S.B. in Computer Science. Thesis work in speech recognition, investigating formant frequencies in consonant vocalization to improve electronic recognition of speech.

Positions Held

Cepstral LLC *Pittsburgh, PA*
December, 2006 - present

Contract Researcher. Managing Cepstral's DARPA commitments, overseeing internal development and joint research and development with academic and industry partners. Liaison to program manager and external team members.

Cepstral LLC *Pittsburgh, PA*
April, 2005 - September, 2006

Director of Language Development. Responsible for planning and oversight of expansion to new languages and voices for Cepstral's text-to-speech products. Principal components of this role include: long-term planning for voice and language products; research and fieldwork for initial specifications of new language projects; day-to-day leadership of voice and language development efforts; management of government-funded projects; support of business development.

Cepstral LLC *Pittsburgh, PA*
August, 2001 - April, 2005

Principal Research Scientist. Led a team of specialists in building synthetic voices for a wide variety of languages, including French, Spanish, German, Arabic, and Pashto. Areas of research focus included data-driven lexicon development and establishment of multilingual resources for synthesis.

Carnegie Mellon University *Pittsburgh, PA*
November, 1993 - September, 1994

Research programmer, JANUS speech-to-speech translation project. Developed an English semantic grammar for a speech parsing system and the generation module converting it to a five-language translation system. Wrote English and Japanese generation grammars.

Electrotechnical Laboratory *Tsukuba, Japan*
February, 1993 - July, 1993

Visiting Researcher, Speech Systems Group.

Service

Interspeech 2006 Organizing Committee
Carnegie Mellon Graduate Student Advisory Board
Carnegie Mellon University Student Advisory Council
MIT Institute Writing Requirement Committee
Reviewer, Speech Communication
Reviewer, Interspeech
Reviewer, Association for Computational Linguistics (ACL)

Selected Publications

Laura Mayfield Tomokiyo, Kay Peterson, Alan W Black, and Kevin A. Lenzo. "Intelligibility of Machine Translation Output in Speech Synthesis." *Proceedings of Interspeech*, September 2006, Pittsburgh.

Laura Mayfield Tomokiyo, Alan W Black, and Carol Sisson. "Mixed-Mode Multilinguality in TTS: The Case of Canadian French." *Proceedings of MULTILING06*, April 2006, Stellenbosch, South Africa.

Silke Goronzy, Laura Mayfield Tomokiyo, Etienne Barnard, and Marelie Davel. "Other Challenges: Non-native Speech, Dialects, Accents, and Local Interfaces." In Tanja Schultz and Katrin Kirchhoff, eds. *Multilingual Speech Processing*, Elsevier, Academic Press, 2006.

Laura Mayfield Tomokiyo, Alan W Black, and Kevin Lenzo. "Foreign Accents in Synthetic Speech: Development and Evaluation." *Proceedings of EUROSPEECH*, September 2005, Lisbon.

Laura Mayfield Tomokiyo. "Speaking Globally: Building the Voices of the World." *Proceedings of SpeechTEK Advanced Technology Symposium*, February 2005, San Francisco.

Laura Mayfield Tomokiyo. "Please Understand Me! Toward Modeling of Non-native Speech in Automatic Speech Recognition." Invited Talk, Acoustical Society of America, November 2004, San Diego.

Sameer R. Maskey, Alan W Black, and Laura Mayfield Tomokiyo. "Bootstrapping Phonetic Lexicons for New Languages." *Proceedings of ICSLP*, October 2004, Jeju, Korea.

Laura Mayfield Tomokiyo, Alan W Black, and Kevin A. Lenzo. "Arabic in my Hand: Small-footprint Synthesis of Egyptian Arabic." *Proceedings of EUROSPEECH*, September 2003, Geneva.

Laura Mayfield Tomokiyo and Rosie Jones. "You're Not From 'Round Here, Are You? Naive Bayes Detection of Non-native Utterance Text." *Proceedings of NAACL*, June 2001, Pittsburgh.

Alex Waibel, Petra Geutner, Laura Mayfield Tomokiyo, Tanja Schultz, Monika Woszczyna. "Multilinguality in Speech and Spoken Language Systems." Invited paper, *Proceedings of the IEEE, Special Issue on Spoken Language Processing*, Vol. 88, No. 8, August 2000.

Laura Mayfield Tomokiyo. "Linguistic Properties of Non-native Speech." *Proceedings of ICASSP*, June 2000, Istanbul.

Laura Mayfield Tomokiyo and Susanne Burger. "Eliciting Natural Speech from Non-native Users: Collecting Speech Data for LVCSR." *Proceedings of the ACL Workshop on Computer Mediated Language Assessment and Evaluation in NLP*, June 1999, Maryland.

Laura Mayfield Tomokiyo and Klaus Ries. "What's in a Word: Learning Base Units in Japanese for Speech Recognition." *Proceedings of the ACL Workshop on Natural Language Learning*, July 1997, Madrid.

Laura Mayfield, Marsal Gavalda, Wayne Ward and Alex Waibel. "Concept-Based Speech Translation," in *Proceedings of ICASSP-95*, Detroit.

Laura Mayfield and Satoru Hayamizu. "Prosodic Features in User Response to a Speech Dialogue System," in *Proceedings of the Information Processing Society of Japan*, vol.2, pp.367-368, October 1993.

Citizenship

United States.