

NIGEL WARD

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Research Interests

Spoken Dialog, Human-Computer Interaction, Prosody, Turn-Taking and Coordination, User-State Modeling, Information Retrieval, Cross-Cultural Communication, Teaching and Learning Applications

Employment

2002 – present. **University of Texas at El Paso**, Computer Science Department, Associate Professor 2002 – 2010, Professor 2010 – present, Chair 2011 – 2012.

1992 – 2002. **University of Tokyo**, Department of Mechano-Informatics, Graduate School of Information Science and Technology and Faculty of Engineering. Lecturer 1992 – 1994, Associate Professor, 1994–2002.

Visiting Positions

2015–2016. **Kyoto University**, Academic Center for Computing and Media Studies, Visiting Professor.

1998–1999. **University of California at Santa Cruz**, Department of Psychology, Perceptual Science Laboratory, Visiting Professor.

1991 – 1992. **University of Tokyo**, Research Center for Advanced Science and Technology, Visiting Researcher.

Education

Ph.D. in Computer Science. **University of California at Berkeley**, 1991.

B.S. in Computer and Communication Sciences (with Honors) and Mathematics. **University of Michigan, Ann Arbor**, 1983.

RESEARCH: PUBLICATIONS

BOOK

A Connectionist Language Generator. Nigel Ward. Ablex, 1994.

JOURNAL ARTICLES

Non-Native Differences in Prosodic-Construction Use. Nigel G. Ward, Paola Gallardo. *Dialogue and Discourse*, 8, pp 1–31, 2017.

Challenges in Building Highly-Interactive Dialog Systems. Nigel Ward and David DeVault, *AI Magazine*, 37, Winter, pp 7-18, 2016.

A Prosody-Based Vector-Space Model of Dialog Activity for Information Retrieval. Nigel G. Ward, Steven D. Werner, Fernando Garcia, Emilio Sanchis. *Speech Communication*, 68, pages 85-96, 2015.

Prosodic and Temporal Features for Language Modeling for Dialog. Nigel G. Ward, Alejandro Vega, Timo Baumann. *Speech Communication*, 54, pages 161-174, 2012.

Achieving Rapport with Turn-by-Turn, User-Responsive Emotional Coloring. Jaime C. Acosta, Nigel G. Ward. *Speech Communication*, 53, pages 1137-1148, 2011.

American and Arab Perceptions of an Arabic Turn-Taking Cue. Nigel G. Ward, Yaffa Al Bayyari. *Journal of Cross-Cultural Psychology*, 41, pages 270-275, 2010.

Learning to Show You're Listening. Nigel G. Ward, Rafael Escalante, Yaffa Al Bayyari, and Tamar Solorio. *Computer Assisted Language Learning*, 20, pages 385-407, 2007.

Searching for Explanatory Web Pages Using Automatic Query Expansion. Manabu Tauchi and Nigel Ward. *Computational Intelligence*, 23 (1), pp 3-14, 2007

Towards a Model of Computer Science Graduate Admissions Decisions. Nigel Ward. *Journal of Advanced Computational Intelligence and Intelligent Informatics*, 10, pp 372-383, 2006.

Non-Lexical Conversational Sounds in American English. Nigel Ward. *Pragmatics and Cognition*, 14 (1), 113-184, 2006.

Automatic User-Adaptive Speaking Rate Selection. Nigel Ward and Satoshi Nakagawa. *International Journal of Speech Technology*, 7, pp 235-238, 2004.

A Tool for Taking Class Notes. Nigel Ward and Hajime Tatsukawa. *International Journal of Human-Computer Studies*, 59 (6), pp 959-981, 2003.

A Study in Responsiveness in Spoken Dialog. Nigel Ward and Wataru Tsukahara. *International Journal of Human-Computer Studies*, 59, pp 603-630, 2003.

Adaptive Number-Giving for Directory Assistance (in Japanese). Satoshi Nakagawa and Nigel Ward. *Human Interface Society*, 5 (1), pp 391-396, 2003.

Responding to Subtle, Fleeting Changes in the User's Internal State. Wataru Tsukahara and Nigel Ward. *CHI Letters* 3 (1), 2001. pp 77-84; also CHI 2001 Conference on Human Factors in Computing Systems.

A Design for a Wearable Translation Device. Jani Patokallio and Nigel Ward. *Human Interface*, 3 (3) pp 5-10. 2001.

Prosodic Features which Cue Back-channel Responses in English and Japanese. Nigel Ward and Wataru Tsukahara. *Journal of Pragmatics*, 32, pp 1177-1207, 2000.

Artificial Intelligence and Other Approaches to Speech Understanding: A case study in methodology. Nigel Ward. *Journal of Experimental and Theoretical Artificial Intelligence*, 10, pp 487-493, 1998.

Responsiveness in Dialog and Priorities for Language Research. Nigel Ward. *Systems and Cybernetics*, special issue on Embodied Artificial Intelligence and Artificial Life, 28 (6), pp. 521-533, 1997.

A Parallel Approach to Syntax for Generation. Nigel Ward. *Artificial Intelligence*, 57, pp. 183-225, 1992.

Some Neglected Aspects of the Generation Task. Nigel Ward. *Computational Intelligence*, 8 (1), pp. 161–171, 1992.

REFEREED CONFERENCE PAPERS

Action-Coordinating Prosody. Nigel G. Ward and Saiful Abu. *Speech Prosody* 2016.

Interactional and Pragmatics-Related Prosodic Patterns in Mandarin Dialog. Nigel G. Ward, Yuanchao Li, Tianyu Zhao, Tatsuya Kawahara. *Speech Prosody* 2016.

Analysis and Prediction of Morphological Patterns of Backchannels for Attentive Listening Agents. Takashi Yamaguchi, Koji Inoue, Koichiro Yoshino, Katsuya Takanashi, Nigel G. Ward, Tatsuya Kawahara. *International Workshop on Spoken Dialogue Systems*, 2016.

On the Possibility of Predicting Gaze Aversion to Improve Video-Chat Efficiency. Nigel G. Ward, Chelsey N. Jurado, Ricardo A. Garcia, Florencia A. Ramos. *ACM Eye-Tracking Research and Applications (ETRA)* 2016.

Automatic Discovery of Simply-Composable Prosodic Elements. Nigel G. Ward. *Speech Prosody*, 2014.

Using Dialog-Activity Similarity for Spoken Information Retrieval. Nigel G. Ward, Steven D. Werner. *Interspeech*, 2013.

Patterns of Importance Variation in Spoken Dialog. Nigel G. Ward, Karen A. Richart-Ruiz. *SigDial*, 14th Annual Meeting of the Special Interest Group on Discourse and Dialogue, 2013.

Towards Empirical Dialog-State Modeling and its Use in Language Modeling. Nigel G. Ward and Alejandro Vega, *Interspeech* 2012.

A Bottom-Up Exploration of the Dimensions of Dialog State in Spoken Interaction. Nigel G. Ward and Alejandro Vega, *SigDial*, 13th Annual Meeting of the Special Interest Group on Discourse and Dialogue 2012. (nominated for best paper)

Representing the Prosodic Context of Words using Gaussian Mixture Models. Shreyas A. Karkhedkar, Nigel G. Ward. *Speech Prosody* 2012.

Dialog Prediction for a General Model of Turn-Taking. Nigel G. Ward, Olac Fuentes, Alejandro Vega. *Interspeech* 2010.

Lexico-Prosodic Anomalies in Dialog. Nigel G. Ward, Alejandro Vega and David G. Novick. *Speech Prosody* 2010.

Using Subtle Prosodic Variation to Acknowledge the User's Current State. Nigel G. Ward, Rafael Escalante-Ruiz. *Interspeech* 2009.

Estimating the Potential of Signal and Interlocutor-Track Information for Language Modeling. Nigel G. Ward, Benjamin H. Walker. *Interspeech* 2009.

Responding to User Emotional State by Adding Emotional Coloring to Utterances. Jaime C. Acosta, Nigel G. Ward. *Interspeech* 2009.

Modeling the Effects of Time-Into-Utterance on Word Probabilities. Nigel G. Ward and Alejandro Vega. *Interspeech* 2008.

Factors Affecting Speaking-Rate Adaptation in Task-Oriented Dialogs. Nigel G. Ward and S. Kumar Mamidipally. *Speech Prosody* 2008.

Prosodic Features that Cue Back-Channel Feedback in Northern Mexican Spanish. Anais G. Rivera and Nigel G. Ward. *Proceedings of the Seventh Annual High Desert Linguistics Society Conference*, University of New Mexico, 2008.

Looking for Telecommunication Channel Preference Differences between Bystanders and Talkers. Nigel G. Ward, Anais G. Rivera and Alejandro Vega. Human Factors in Telecommunications 2008.

A Case Study in the Identification of Prosodic Cues to Turn-Taking: Back-Channeling in Arabic. Nigel Ward and Yaffa Al Bayyari. Interspeech 2006.

Prosodic Feature Generation for Back-channel Production. Thamar Solorio, Olac Fuentes, Nigel Ward, Yaffa Al Bayyari. Interspeech 2006.

Root Causes of Lost Time and User Stress in a Simple Dialog System. Nigel G. Ward, Anais G. Rivera, Karen Ward, David G. Novick. Interspeech 2005.

Training Wheels for the Command Line. David Herrera and Nigel Ward. 11th International Conference on Human-Computer Interaction, 2005.

Dealing with Uncertainty in a Model of Computer Science Graduate Admissions Decisions. Nigel Ward. Fifth International Conference on Intelligent Technologies, 2004.

Pragmatic Functions of Prosodic Features in Non-Lexical Utterances, Nigel Ward, Speech Prosody, 2004.

Nasalization in Japanese Back-Channels bears Meaning Masafumi Okamoto and Nigel Ward, International Congress of the Phonetic Sciences, 2003.

Designing A Tool for Taking Lecture Notes, Nigel Ward and Hajime Tatsukawa, Human-Computer Interaction International Conference 2003.

Software for Taking Notes in Class. Nigel Ward and Hajime Tatsukawa, Frontiers in Education 2003.

Automatic User-Adaptive Speaking Rate Selection for Information Delivery. Nigel Ward and Satoshi Nakagawa. International Conference on Spoken Language Processing, 2002.

Can Confidence Scores Help Users Post-Editing Speech Recognizer Output? Taku Endo, Nigel Ward and Minoru Terada. International Conference on Spoken Language Processing, 2002.

Conversational Grunts and Real-time Interaction. Nigel Ward. International Conference on Speech Processing. 2001.

Searching for Explanatory Web Pages using Query Expansion. Manabu Tauchi and Nigel Ward. Pacific Association for Computational Linguistics (PACLING) 2001.

Design for a System able to use Time-Critical Spoken Advice. Shunsuke Soeda and Nigel Ward. Fifteenth National Conference of the Japanese Society for Artificial Intelligence, 2001.

Automatic Tuning of Terminology Queries to Search Engines. (in Japanese). Manabu Tauchi and Nigel Ward. 7th Meeting of the (Japanese) Association for Natural Language Processing, 2001.

The Challenge of Non-Lexical Speech Sounds. Nigel Ward. International Conference on Spoken Language Processing, 2000.

Evaluating Responsiveness in Spoken Dialog Systems. Wataru Tsukahara and Nigel Ward. International Conference on Spoken Language Processing, 2000.

Pacing Spoken Directions to Suit the Listener. Tatsuya Iwase and Nigel Ward. International Conference on Spoken Language Processing, 1998.

The Relationship between Sound and Meaning in Japanese Back-channel Grunts. Nigel Ward. 4th Meeting of the (Japanese) Association for Natural Language Processing, 1998.

Using Prosodic Clues to Decide When to Produce Back-channel Utterances. Nigel Ward. International Conference on Spoken Language Processing, 1996.

Artificial Intelligence and Other Approaches to Speech Understanding: A case study in methodology. Nigel Ward. Tenth National Conference of the Japanese Society for Artificial Intelligence, 1996. pages 403–406,

A Lightweight Parser for Speech Understanding. Nigel Ward. International Conference on Spoken Language Processing, 1994.

Towards Unrestricted Syntax for Speech Understanding. Nigel Ward. 48th National Conference, Information Processing Society of Japan, 1994.

An Alternative to Deep Case for Representing Meaning Relations. Nigel Ward. International Conference on Computational Linguistics (COLING-92), 1992.

Decomposing Deep Cases. Nigel Ward. 43rd National Conference, Information Processing Society of Japan, 1991.

A Connectionist Treatment of Grammar for Generation. Nigel Ward. *Proceedings of the Twelfth Cognitive Science Conference*, Lawrence Erlbaum Associates, 1990.

Capturing Intuitions about Human Language Production. Nigel Ward. *Proceedings of the Eleventh Cognitive Science Conference*, Lawrence Erlbaum Associates, Hillsdale, New Jersey, 1989.

On the Ordering of Decisions in Machine Translation. Nigel Ward. Third National Conference of the Japanese Society for Artificial Intelligence, 1989.

A Model for Natural Machine Translation. Nigel Ward. 38th National Conference, Information Processing Society of Japan, 1989.

Issues in Word Choice. Nigel Ward. International Conference on Computational Linguistics (COLING-88), 1988.

REFEREED SYMPOSIUM AND WORKSHOP PAPERS

Ten Challenges in Highly-Interactive Dialog Systems. Nigel G. Ward, David Devault. AAAI Symposium on Turn-taking and Coordination in Human-Machine Interaction, 2015.

The Similar Segments in Social Speech Task. Nigel G. Ward, Steven D. Werner, David G. Novick, Elizabeth E. Shriberg, Catharine Oertel, Louis-Philippe Morency, Tatsuya Kawahara. MediaEval 2013 Workshop.

Evaluating Prosody-Based Similarity Models for Information Retrieval. Steven D. Werner, Nigel G. Ward. MediaEval 2013 Workshop.

Visualizations Supporting the Discovery of Prosodic Contours Related to Turn-Taking. Nigel G. Ward, Joshua L. McCartney. Interdisciplinary Workshop on Feedback Behaviors in Dialog, 2012.

Possible Lexical Cues for Backchannel Responses. Nigel G. Ward. Interdisciplinary Workshop on Feedback Behaviors in Dialog, 2012.

Where in Dialog Space does Uh-huh Occur? Nigel G. Ward, David G. Novick, Alejandro Vega Interdisciplinary Workshop on Feedback Behaviors in Dialog, 2012.

Directions for Research on Spoken Dialog Systems, Broadly Defined. Nigel G. Ward. Workshop on Future Directions and Needs in the Spoken Dialog Community, at NAACL-HLT 2012.

Temporal Distributional Analysis. Nigel G. Ward. Semdial Workshop on the Semantics and Pragmatics of Dialogue, 2011.

The Challenge of Modeling Dialog Dynamics. Nigel G. Ward. Workshop on Modeling Human Communication Dynamics, at Neural Information Processing Systems 2010

Towards the Use of Inferred Cognitive States in Language Modeling, Nigel Ward and Alejandro Vega, IEEE Workshop on Automatic Speech Recognition and Understanding, 2009.

A Framework for Model-based Evaluation of Spoken Dialog Systems. Sebastian Möller and Nigel Ward. 9th Sigdial Workshop on Discourse and Dialogue, 2008.

Differences Between Americans and Arabs in the Production and Interpretation of Verbal and Non-verbal Dialogue Behavior. Maria L. Flecha-Garcia, David G. Novick, and Nigel G. Ward. Speech and Face to Face Communication Wokshop, pp 47–48, 2008.

A Combined Method for Discovering Short-Term Affect-Based Response Rules for Spoken Tutorial Dialog. Tasha Hollingsed and Nigel Ward. Workshop on Speech and Language Technology in Education (SLaTE) 2007.

Evaluating Real-Time Responsiveness in Dialog. Nigel G. Ward. Interspeech 2006 Satellite Workshop: Dialogues on Dialogues: Multidisciplinary Evaluation of Advanced Speech-Based Interactive Systems.

On the Expressive Competencies Needed for Responsive Systems, Nigel Ward. Workshop on Subtle Expressivity for Characters and Robots at CHI 2003.

Machine Translation in the Mobile and Wearable Age, Nigel Ward. Machine Translation Roadmap Workshop at TMI-MT. 2002.

A Tool for Taking Lecture Notes (in Japanese). Hajime Tatsukawa and Nigel Ward. Interaction 2002, Information Processing Society of Japan. 2002.

An Analysis of Lecture Notes and a System for Note-taking (in Japanese). Hajime Tatsukawa and Nigel Ward. Workshop on Interactive Systems and Software (WISS). 2001.

A Wearable Cross-Language Communication Aid. Jani Patokallio and Nigel Ward. International Symposium on Wearable Computing. 2001.

Issues in the Transcription of English Conversational Grunts. Nigel Ward. 1st SIGdial Workshop on Discourse and Dialogue. ACL. 2000

Requirements for a Socially Aware Free-standing Agent. Nigel Ward and Takeshi Kuroda. Proceedings of the Second International Symposium on Humanoid Robots, 108–114, 1999.

Low-Pitch Regions as Dialog Signals? Evidence from Dialog-Act and Lexical Correlates in Natural Conversation. Nigel Ward. European Speech Communication Association (ESCA) Workshop on Dialogue and Prosody. 1999.

Some Exotic Discourse Markers of Spoken Dialog. Nigel Ward. Association for Computational Linguistics, Workshop on Discourse Relations and Discourse Markers, 1998.

A Simple Rule for Cooperative Timing of Utterances in Spoken Dialog. Nigel Ward. IJCAI-97 Workshop on Collaboration, Cooperation and Conflict in Dialogue Systems, 1997.

A Responsive Dialog System. Nigel Ward and Wataru Tsukahara. First International Workshop on Human-Computer Conversation, 1997.

Reactive Responsiveness in Dialog. Nigel Ward. AAAI Fall Symposium on Embodied Cognition and Action, 1996.

An Approach to Tightly-Coupled Syntactic/Semantic Processing for Speech Understanding. Nigel Ward. AAI Workshop on the Integration of Natural Language and Speech Processing, 1994.

On the Role of Syntax in Speech Understanding. Nigel Ward. Proceedings of the International Workshop on Speech Processing (also Technical Report SP93-76, IEICE), 1993.

A Connectionist Treatment of Grammar for Generation: Relying on Emergents. Nigel Ward. Proceedings of the Fifth International Workshop on Natural Language Generation, 1990.

An Open Design for Generation. Nigel Ward. Proceedings of the AAI Workshop on Text Planning and Generation, 1988.

BOOK CHAPTERS

A Prosodic Feature that Invites Back-Channels in Egyptian Arabic. Nigel Ward and Yaffa Al Bayyari, *Perspectives in Arabic Linguistics XX*, Mustafa Mughazy, ed., 187-206 John Benjamins, 2007.

Shrdlu. Nigel Ward. in *Encyclopedia of Cognitive Science*, Nature Publishing Group, 2002.

Machine Translation. Nigel Ward and Daniel Jurafsky. in *Speech and Language Processing, 1st Edition*, by Daniel Jurafsky and James H. Martin, 720–751. Prentice-Hall, 2000

A Responsive Dialog System. Nigel Ward and Wataru Tsukahara. in *Machine Conversations*, edited by Yorick Wilks, 169–174. Kluwer, 1999.

TECHNICAL REPORTS

A Corpus for Investigating English-Language Learners' Dialog Behaviors. Nigel G. Ward and Paola Gallardo. Technical Report UTEP-CS-15-32, 2015

Data Collection for the Similar Segments in Social Speech Task. Nigel G. Ward, Steven D. Werner. Technical Report UTEP-CS-13-58, 2013.

Lexical and Prosodic Indicators of Importance in Spoken Dialog Nigel G. Ward, Karen A. Richart-Ruiz. Technical Report UTEP-CS-13-41, 2013.

Thirty-Two Sample Audio Search Tasks. Nigel G. Ward, Steven D. Werner. Technical Report UTEP-CS-12-39, 2012.

Visualization to Support the Discovery of Prosodic Contours Related to Turn-Taking. Nigel G. Ward, Joshua L. McCartney. Technical Report UTEP-CS-10-24, 2010.

Studies in the Use of Time Into Utterance as a Predictive Feature for Language Modeling. Alejandro Vega, Nigel G. Ward. Technical Report UTEP-CS-10-22.

Looking for Entropy Rate Constancy in Spoken Dialog. Alejandro Vega, Nigel G. Ward. Technical Report UTEP-CS-09-19.

Additional Information about American and Arab Perceptions of an Arabic Turn-Taking Cue. Nigel Ward and Yaffa Al Bayyari. University of Texas at El Paso Technical Report UTEP-CS-08-34

Testing the Value of a Time-based Language Model for Speech Recognition. Nisha Kiran and Nigel G. Ward. University of Texas at El Paso Technical Report UTEP-CS-08-29.

Reasons why Mobile Telephone Conversations may be Annoying: Considerations and Pilot Studies. Nigel G. Ward, Anais G. Rivera and Alejandro Vega. University of Texas at El Paso Technical Report UTEP-CS-07-60, 2007.

Three Prosodic Features that Cue Back-Channel Feedback in Northern Mexican Spanish. Anais G. Rivera and Nigel G. Ward. University of Texas at El Paso Technical Report UTEP-CS-07-12, 2007.

Detecting Filled Pauses in Tutorial Dialogs. Gaurav Garg and Nigel G. Ward. University of Texas at El Paso Technical Report UTEP-CS-06-32, 2006.

Automatic Labeling of Back Channels. Udit Sajjanhar and Nigel G. Ward. University of Texas at El Paso Technical Report UTEP-CS-06-26, 2006.

The UTEP Corpus of Iraqi Arabic. Nigel Ward, David Novick, and Salamah I. Salamah. University of Texas at El Paso Technical Report UTEP-CS-06-02, 2006.

Some Usability Issues and Research Priorities in Spoken Dialog Applications. Nigel Ward, Anais Rivera, Karen Ward, and David Novick. University of Texas at El Paso Technical Report UTEP-CS-05-23, 2005.

A Model of Computer Science Graduate Admissions Decisions. University of Texas at El Paso Technical Report UTEP-CS-04-30, 2004.

Non-Lexical Conversational Sounds in American English. University of Texas at El Paso Technical Report UTEP-CS-04-22, 2004.

A Flexible, Parallel Model of Natural Language Generation. University of California at Berkeley Technical Report UCB/CSD 91/629.

MAGAZINE ARTICLES

Akanbe~ (nyah-nyah-nyah-nyah-nyah) (in Japanese). Nigel Ward. *Gengo*, March 2004.

Moving Note-taking into the Digital Age. Nigel Ward. *Syllabus*. October 2003.

ndakko (mbye) (in Japanese). Nigel Ward. *Nihongo Gaku*, April 2002.

Back-channel Feedback as a Reflex Phenomenon (in Japanese). Wataru Tsukahara and Nigel Ward, *Gengo*, September 1997.

Author, **Why not not evaluate AI?** Nigel Ward. *SIGART Bulletin*, 3(3), 1993.

NON-REFEREED WORKSHOP PAPERS (selected)

Adding Audio Fields to Web Pages (in Japanese). Hiroyuki Maeda and Nigel Ward. Interaction 2002, Information Processing Society of Japan.

On the Combination of Pen and Keyboard for Note-taking. (in Japanese). Hajime Tatsu-kawa and Nigel Ward. 63rd Workshop on Computers and Education, Information Processing Society of Japan. 2002.

An Alternative Character-Input Device using Up-down and Lateral Motions for Each Finger. (in Japanese) Amane Torii and Nigel Ward. Interaction 2001 (87th Human Interface Workshop), Information Processing Society of Japan. 2001.

Three-dimensional Display of Directory Structure to Support Users Tidying up Files. (in Japanese) Keisuke Nishimoto and Nigel Ward. Interaction 2001 (87th Human Interface Workshop), Information Processing Society of Japan. 2001.

Evaluating Information-Giving Chatterbots (in Japanese). Tatsuya Iwase and Nigel Ward. Interaction 2000 (87th Human Interface Workshop), Information Processing Society of Japan. 2000.

In Japanese a Low Pitch Region Means “Back-channel Feedback Please”. Nigel Ward. Information Processing Society of Japan, 11th Spoken Language Processing Workshop, 1996.

An Evidential Model of Syntax for Understanding. Nigel Ward. Information Processing Society of Japan, Natural Language Working Group, Technical Report 88-3, 1992.

Towards Natural Machine Translation. Nigel Ward. Institute of Electronics, Information, and Communication Engineers, Artificial Intelligence Working Group, Technical Research Report AI89-30, 1989.

RESEARCH: GRANTS

As PI:

Modeling Turn-Taking in Senior-Citizen Conversations. Industrial Sponsor, 2016-2017, \$70,000.

Dialog-Activity Spotting using Prosodic-Similarity Models. DARPA, 2015-2017, \$424,846.

Preliminaries to the Development of Responsive Prosodic Behaviors for Interactive Systems. NSF, 2014-2015, \$150,000

Dynamic Control of Voice Codec Data Rate using Importance Estimation. University of Texas System (UT Transform), 2013-2014, \$10,000

Time-Based Language Modeling, National Science Foundation (IIS), 2009-2013, \$539,606, including supplements

Developing Models of Back-Channel Behavior and Evaluation Metrics, subcontract to USC Institute for Creative Technologies, 2008–2009, \$39,000.

Back-Channel Behaviors and Perceptions of Rapport, subcontract to USC Institute for Creative Technologies, 2007–2008, \$38,000.

Beyond Words: Identification of Back-Channel Communication Rules in Arabic and Development of Training Methods, DARPA (subcontract to USC ISI), 2005-2007. \$419,876.

Modeling Real-Time Interpersonal Interaction in Spoken Communication, Principal Investigator, National Science Foundation, 2004–2009. \$506,878, including supplements.

(105¥ \simeq \$1)

A Wearable System to Support Cross-Language Communication, (Principal Investigator), 1,000,000¥. Casio Foundation, 2001–2002.

Prosodic Aspects of Sub-lexical Utterances, 5,650,000¥(subcontract of the Specific Area B Grant on “Prosodic Control for High Quality Speech Synthesis”, Ministry of Education, Japan). F2000-2001.

A Conversational-Reflex Training System for Second Language Learners. (Principal Investigator), 2,100,000¥. Specific Area A Grant, Ministry of Education, Japan, F2000.

User-Adaptive Information Delivery by Voice (Principal Investigator) 1,700,000¥. International Communications Foundation, Tokyo, Japan, F1999-2002

Fleeting Facial Expressions in Dialog (Principal Investigator) 1,000,000¥. Okawa Foundation for Information and Telecommunications, Japan, F1999-2000

Paralinguistic Information as a New Interface Modality for Information Delivery Systems (Principal Investigator) 2,500,000¥. Fundamental Research Grant, Ministry of Education, Japan, F1999-2000

The Acoustic and Meaning Components of Grunts (Principal Investigator) 800,000¥. Inamori Foundation, Kyoto, Japan, F1998-1999.

A System to Assist Rote Learning (Principal Investigator) 3,000,000¥. Hayao Nakayama Foundation, Tokyo, Japan, F1997.

A Basic Study of Grunts in Communication (Principal Investigator) 1,000,000¥. Sound Technology Promotion Foundation, Tokyo, Japan, F1996.

Training Fingers for Machinery Operation using Real Time Responsive Spoken Instruction (Principal Investigator), 1,100,000¥. Young Researcher Development Grant, Ministry of Education, Japan, F1996.

Learning Control for the Integration of Multiple Knowledge Sources and Semantic Feedback for Speech Understanding (Principal Investigator), 1,400,000¥, Priority Research Area Grant, Ministry of Education, Japan, F1995.

Exploiting Speech Understanding in Intelligent Interfaces (in cooperation with the International Computer Science Institute) (Principal Investigator), 4,200,000¥, International Cooperation Grant, Ministry of Education, Japan, F1994-1995.

A Speech Dialog System Incorporating a Parallel Evidential Inferential Understanding Component (Principal Investigator), 1,900,000¥, Priority Research Area Grant, Ministry of Education, Japan, F1994.

Semantic Feedback for Speech Understanding in Man-Machine Interfaces (Principal Investigator), 900,000¥, Young Researcher Development Grant, Ministry of Education, Japan, F1994.

Parallel Syntactic Hypotheses for Speech Understanding (Principal Investigator), 500,000¥, Artificial Intelligence Promotion Foundation, Nagoya, Japan, F1993.

Travel Grant, 150,000¥, Hara Research Foundation, Osaka, Japan, 1992.

As Co-PI:

Effectiveness of Visualization to Improve Public Participation in Transportation Planning, PI Ruey L. Cheu. Federal Highway Administration, 2008-2009. \$82,961,

Active Listening and Trust Across Cultures, PI David Novick, Department of Defense, 2007-2009, \$181,264.

Friendly Artifact: Research on a Machine for Observing, Understanding, and Responding to Human Behavior, PI N. Nakajima, NEDO, 1996-1999, 55,000,000¥

RESEARCH: PRESENTATIONS

INVITED CONFERENCE AND WORKSHOP TALKS

20th Workshop on the Semantics and Pragmatics of Dialogue (Semdial), Keynote: Prosody, Action, and Coordination in Real-time Gameplay. 2016.

6th Dialog Systems Symposium, Keynote: Dialog Modeling beyond Dialog Systems, 2015.

Workshop on Formalizing Dialogue Genres for Efficient Virtual Character Creation, invited talk: Extracting Patterns of Interaction from Dialog Data, University of Southern California, Institute for Creative Technologies, September 2014

Panel on Future Directions in Dialog Systems, panelist, at the REAL Challenge Workshop at ACL, June 2014

8th ISCA Speech Synthesis Workshop, keynote: Prosodic Patterns in Dialog, October 2013

Dialog Prediction for a General Model of Turn-Taking. USC-UTEP Workshop on Predictive Models of Human Communication Dynamics, Institute for Creative Technologies, Los Angeles, August 2010.

Workshop on Cross-cultural and Culture-specific Aspects of Conversational Backchannels and Feedback, invited talk: Ten Questions about Back-Channels, and Some Incomplete Answers. University of Southern California, Institute for Creative Technologies: December 2006.

International Conference on Speech Processing, keynote: Conversational Grunts and Real-time Interaction. Taejon, Korea. August 2001.

Institute of Electronics, Information, and Communication Engineers, Thought and Language Group: invited talk: Ephemeral Emotions and Responsiveness in Dialog. Tokyo. 2001.

17th Annual Conference of the Semiotics Society of Japan, invited talk: Back-channel Feedback as a Reflex Phenomenon. Tokyo. 1997.

Workshop on Computational Models of Human Syntactic Processing, invited talks: A Parallel Approach to Syntax for Generation; Second Thoughts on an Artificial Intelligence Approach to Speech Understanding. Wassenaar, The Netherlands, June 1996.

OTHER INVITED TALKS

Phonology Association in Kansai. Prosodic Constructions in Japanese Dialog. Nigel G. Ward and Shizuka Nakamura. Kobe, April 2016.

NAIST Nara Advanced Institute for Science and Technology. The Subsecond Patterns of Interaction in Dialog: Discovery and Applications. Nara, September 2015.

IEEE Signal Processing Society, Kansai Section, public lecture: Human Activity Recognition, User State Inference, and Behavior Pattern Discovery: Lessons from the Prosody of Dialog. Kyoto, October 2015.

KTH (Swedish Royal Institute of Technology), Department of Speech, Music and Hearing, The Dimensions of Dialog State in Spoken Interaction. September 2012.

Carnegie Mellon University, Language Technologies Institute, Prosody and Prediction for Dialog Systems, and in Particular for Language Modeling, Adaptation and Turn-Taking. November 2010.

University of Southern California, Institute for Creative Technologies, Learning to Show You're Listening: A Trainer for Back-Channeling in Arabic. October 2006.

University of Pittsburgh, Computer Science Department, Learning to Show You're Listening: A Trainer for Back-Channeling in Arabic. September 2006.

Wayne State University, A Tool for Taking Lecture Notes. March 2002.

Keio University, Philosophy Department Lecture Series: Sense, Nonsense, and Computer Conversation. Tokyo, July 1996.

Waseda University, Information and Cognition Seminar Series: On the Role of Syntax in Speech Understanding. Tokyo, December 1993.

Hara Foundation Advanced Technology Lecture Series. Connectionist Natural Language Processing, Tokyo, February 1993.

International Workshop on Future Generations of Natural Language Processing, Future Directions for NLP, panelist. Kyoto, July 1991.

Fujitsu KSA Forum, Towards Natural Machine Translation. Iizuka, Japan, May 1989.

NTT, Towards Natural Machine Translation. Yokosuka, Japan, May 1989.

ATR, Towards Natural Machine Translation. Kyoto, April 1989.

REFEREED PRESENTATIONS (without papers)

Prospects for Evaluating Prosody Models using Dialog Data. Nigel G. Ward. Common Prosody Platform Workshop, 2016, Boston.

An Investigation of Non-Native Prosodic Behavior in Dialog. Nigel G. Ward. Japan Phonetics Society, December 2015, Tokyo.

Prosodic Constructions in Japanese Dialog: Preliminary Observations. Nigel G. Ward. Japan Pragmatics Society, 2015, Nagoya.

Teaching the Prosodic Constructions of Dialog. Nigel G. Ward. Japan Association for Language Teaching, 2015, Shizuoka.

Prosodic Constructions for Contrast, Complaint, and Contradiction; and their Common Elements. Nigel G. Ward. International Pragmatics Association Meeting, Panel on Prosodic Constructions in Dialog, 2015, Antwerp.

Teaching the Prosodic Constructions of Dialog. Nigel G. Ward. Japan Association for Language Teaching Conference, 2015, Shizuoka.

Functions of Short Narrow-Pitch-Range Regions in Native and Non-Native English Dialog. Nigel G. Ward and Paola Gallardo. 11th High Desert Linguistics Society Meeting, 2014, Albuquerque.

Differences between Americans and Arabs in the Production and Interpretation of Verbal and Non-verbal Dialogue Behavior. Maria L. Flecha-Garcia, David G. Novick and Nigel G. Ward. Speech and Face to Face Communication Workshop, 2008, Grenoble

Studies in Cross-Cultural Interpretations of Back-Channelling Behavior. Yaffa Al Bayyari and Nigel Ward. 2008 Meeting of the Society for Cross-Cultural Research.

Active Listening and Trust across Cultures. Behavioral Scientists Workshop. DoD. Oct 2007.

The Role of Gesture in Inviting Back-Channels in Arabic. Yaffa Al Bayyari and Nigel Ward. 10th Meeting of the International Pragmatics Association, 2007.

Learning to Show You're Listening: A Back-Channel Trainer for Arabic Rafael Escalante, Nigel G. Ward, Yaffa Al Bayyari and Thamar Solorio. Calico 2007.

A Combined Method for Discovering How to Detect and Respond to the Learner's Short-term Affective States. Tasha Hollingsed and Nigel Ward. Society for Personality and Social Psychology, 2007.

A Prosodic Feature that Invites Back-Channels in Egyptian Arabic. Nigel Ward and Yaffa Al Bayyari, 20th Arabic Linguistics Symposium, 2006.

Real-Time Social Skills and Responsiveness in Dialog. Social Resonance Workshop, CSLR, University of Colorado. November 2003.

Moving Note-taking into the Digital Age, Nigel Ward and Hajime Tatsukawa, Syllabus — Technology for Higher Education 2003.

Sound Symbolism in *uh-huh*, *uh-hn*, *mm*, *uh* and the like. Nigel Ward. paper given at the Annual Meeting of the Linguistic Society of America, January 2001

Inferring Processing Times from a Corpus of Conversations Nigel Ward. poster presented at the First Conference on Computational Psycholinguistics, August 1997

Theoretical Chastity and Technical Promiscuity in Connectionist Studies of Natural Language. AAAI Spring Symposium: Connectionist Natural Language Processing, March 1991.

SYSTEM DEMONSTRATIONS

A Prototype Dialog Predictor. Nigel Ward, Alejandro Vega, Olac Fuentes and Shreyas Karkhedkar. Interspeech 2010.

Using Emotion to Gain Rapport in a Spoken Dialog System. Jaime C. Acosta and Nigel Ward. Interspeech 2009.

A Software Suite for Learning Arabic Back-Channel Behaviors. Rafael Escalante and Nigel Ward. Workshop on Speech and Language Technology in Education (SLaTE) 2007.

Aizula, A Back-channeling System for English and Japanese. ELSNet Speech System Olympics, at Eurospeech 1997.

RESEARCH: OTHER

PATENT

Dynamic Control of Voice Codec Data Rate. US Patent 9,208,798. Nigel Ward, Timo Baumann, Shreyas A. Karkhedkar, and David G. Novick. 2015

PUBLIC DOMAIN SOFTWARE

Mid-Level Prosodic Feature Toolkit, github.com/nigelgward/midlevel, 2015–

The Acceptance Estimator for Computer Science Graduate Admissions Decisions. 2004–

Prosodic Principal Components Analysis Toolset 2013 –

Didi, a Dialog Display and Analysis Tool. 2003

Pstone, a Tool for Teaching Context-Free Grammar Writing. 2000

The Spoken Language Understanding Mini-Challenge. 1995

The Lotec Speech Recognition System, version 2. 1995.

The Lotec Speech Recognition System. 1994. (also in the Artificial Intelligence Collection, Volume 2, Prime Time Freeware, 1994)

minitoc.sty, version 1. 1990. (revised version by Daniel Jurafsky and Jean-Pierre Drucbert in the TeTeX distribution, 1993, revised 2006).

DATA COLLECTIONS

Similar Segments in Social Speech, video data in 3 DVDs, with annotations and software. archived in the Special Collections Department of the University of Texas at El Paso Library. Nigel G. Ward and Steven D. Werner. 2013.

The UTEP Corpus of Iraqi Arabic, audio data in 6 CDs. archived in the Special Collections Department of the University of Texas at El Paso Library. Nigel G. Ward, David G. Novick and Salamah I. Salamah. 2006.

DOCTORAL THESES SUPERVISED

Using Emotion as Inferred from Prosody in Language Modeling. Shreyas A. Karkhedkar, University of Texas at El Paso, 2012.

Using Emotion to Gain Rapport in a Spoken Dialog System. Jaime C. Acosta, University of Texas at El Paso, 2009.

Acknowledgment Selection based on Context and the User's Prosody for a Responsive Spoken Dialog System (in Japanese). Wataru Tsukahara. University of Tokyo. 2000.

AWARDS

Fulbright Scholar. 2015-2016.

Best Paper Award, PACLING (Pacific Computational Linguistics Conference), 2001

Kokuhi Fellowship (Japanese Government, Monbusho), 1988–1989.

National Science Foundation Graduate Fellowship, 1983–1986.

AWARDS WON BY ADVISEES

Alejandro Vega. University Outstanding Thesis Award for 2012; Honorable Mention, Computing Research Association Outstanding Undergraduate Research Awards 2010.

Jaime C. Acosta. University Outstanding Dissertation Award for 2009 (UTEP); ACTEDS (Army Civilian Training, Education and Development System) award (covering full tuition for the duration of studies, plus one year of paid leave to work full time on Ph.D. research), 2008; Summer Internship at the University of Pittsburgh LearnLab, 2008; Graduate School Banner Bearer for the Spring 2007 Commencement.

Rafael Escalante. Scholarship to attend the NAACL Summer School in Human Language Technology, 2007.

TEACHING

COURSES TAUGHT (some team-taught)

Human-Computer Interaction. University of Texas at El Paso, graduate course, 2002 – 2010, 2013 – 2014, 2017

Spoken Dialog Systems. UTEP graduate course, 2006, 2008, 2010, 2015

Search Engine Technologies. UTEP graduate course, 2007, 2009

Statistical Natural Language Processing. UTEP graduate course, 2003.

Advanced Object-Oriented Programming, UTEP, 2011, 2014.

Programming Languages, UTEP, 2014, 2015

Compilers and Interpreters. UTEP 2003 – 2005.

Junior Professional Orientation. UTEP 2005.

Introduction to Computer Science. UTEP 2003.

Agent Systems. University of Tokyo graduate course. 2001.

Natural Language Processing. UT graduate course. 1992 – 1994, 1996, 1997, 1999.

Topics in Cognitive Science. UT graduate course. 1993, 1995.

Software Laboratory. UT (new course). 1997, 1999, 2000.

Artificial Intelligence Programming and Software Engineering. UT, 1996, 1997, 1999–2001.

Engineering-Software Literacy. UT (new course). 2000 (coordinator)

Theory of Computation. UT, 1992 – 1997, 1999, 2000.

Programming Tools and Operating Systems Concepts. UT. 1998.

LISP and Applications. UT, 1992 – 1995.

Artificial Intelligence (as TA). UC Berkeley, 1986.

Compilers (as TA). UC Berkeley, 1985.

TUTORIALS, SHORT COURSES

Teaching the Prosodic Constructions of English Dialog. Nigel G. Ward. Japan Association for Language Teaching Annual Meeting, 2015; Kyoto Chapter of the Japan Society for Language Teaching, March 2016.

Dialog Models and Dialog Phenomena, with Gabriel Skantze, at Interspeech 2015

Introduction to Connectionism. three lectures, University of Science and Technology of China (USTC), Hefei, October 1992.

Machine Translation Tutorial, Conference on Computer Processing of Chinese and Oriental Languages, Toronto, August 1988.

Introduction to LISP. one week intensive course at AT&T Bell Laboratories, as a Consultant for Franz Inc. 1987, 1988.

GUEST LECTURES

Usability Evaluation. in Graduate Ergonomics. 2004–2009.

Research Methods in Human-Computer Interaction. in Graduate Research Methods. 2008.

Interface Issues in Computer Graphics. in Graduate Computer Graphics. 2004.

Prototyping. in Software Engineering I. 2003.

Scripting Multimedia Interactions. Mechano-Informatics Laboratory. 2001.

Intelligent Agent Technologies. Information Systems Engineering II. UT. 1999, 2000.

Conversation Engineering. Men and Machines survey course. UT. 1997, 1998.

Designing Usable Software. three sessions. Design Laboratory III. UT. 1995, 1996.

Signal Processing for Speech. Signal and Image Processing Course. UT. 1995 – 1997, 1999.

Connectionism. two lectures. Information Systems Engineering Course, UT. 1992.

SERVICE

SERVICE TO THE RESEARCH COMMUNITY

ORGANIZING

Similar Segments in Social Speech Task, at the MediaEval Benchmarking Initiative for Multimedia Evaluation. 2013, lead organizer.

Interdisciplinary Workshop on Feedback Behaviors in Dialog, Stevenson, Washington, September 8-9, 2012 (Interspeech Satellite Workshop), lead organizer.

Workshop on Overlap in Human-Computer Dialogue, Los Angeles, September 19-20 2011, co-organizer.

Workshop on Predictive Models of Human Communication Dynamics, August 4-6, 2010, Los Angeles. co-organizer with Louis-Philippe Morency.

Workshop on Modeling Human Communication Dynamics, at the Conference on Neural Information Processing Systems (NIPS), 2010, co-organizer.

Special Session on The Prosody of Turn-Taking and Dialog Acts at Interspeech 2006, lead organizer.

GRANT REVIEWING

National Science Foundation: Smart and Connected Health, panelist, Speech and Language Processing, panelist, 2015; Human Language Technologies, panelist, 2013; Science and Technology Centers, panelist, 2011; Robust Intelligence, panelist 2009; Advanced Learning Technologies, panelist, 2005, 2006, 2007, 2008; Human Language and Communication, panelist, 2004; Science of Learning Centers, site visitor, 2004; Information Technology Research, panelist, 2000; ad hoc reviews in Linguistics and in Robotics.

US-Israel Binational Science Foundation, reviewer, 2015

Medical Infrastructure Program, US Army, tasked to the American Institute of Biological Sciences, reviewer, 2011

Social Signal Processing Net (EU Project), workpackage reviewer, 2010

Economic and Social Research Council (UK), reviewer, 2006

JOURNAL REVIEWING

Speech Communication, 2004, 2005, 2008, 2010, 2011, 2012, 2013, 2015

Computer Speech and Language, 2011, 2013

ACM Transactions on Speech and Language Processing, 2011

IEEE Transactions on Affective Computing, 2011, 2012, 2013

Journal on Multimodal User Interfaces, 2012, 2013

International Journal of Speech Technology, 2001–2007 (editorial board), 2011, 2013, 2016
Journal of Phonetics, 2011
Journal of the Acoustic Society of America, 2010
International Journal of Human-Computer Studies, 2004, 2008, 2014
Intercultural Pragmatics, 2007
Language and Speech, 2003
Pattern Recognition Letters, 2014
Journal of Experimental and Theoretical Artificial Intelligence, 1992
Computational Intelligence, 1991

CONFERENCE AND WORKSHOP REVIEWING

Interspeech (and precursors ICSLP and Eurospeech), 2005 – 2016 (scientific review committee),
 Area Chair for Paralinguistics 2015, 2017)
 SIGdial (ACL/ISCA) Workshop on Discourse and Dialogue, 2001, 2008, 2011 – 2016 (program
 committee)
 Speech Prosody 2004 – 2016 (scientific committee)
 ACM International Conference on Multi-Modal Interaction (ICMI), 2010, 2015-2017. Area Chair.
 for Human Communication Dynamics 2016
 ICASSP (IEEE International Conference on Acoustics, Speech, and Signal Processing), 2015-
 2016
 CHI (ACM Computer Human Interaction) Conference, 2002 – 2012, 2015, 2017
 ACL (Association for Computational Linguistics), 1997, 1998, 2000, 2003, 2013, 2015-2017
 Semdial (Workshop on the Semantics and Pragmatics of Dialogue), 2011 – 2014
 Autonomous Agents and Multiagent Systems (AAMAS), 2013, 2015 – 2016
 International Conference on Affective Computing and Intelligent Interaction, 2015
 International Workshop on Spoken Dialog Systems, 2014–2017
 Social Computing (ASE/IEEE), 2012
 IEEE Spoken Language Technology Workshop, 2010–2016
 International Workshop on Spoken Language Systems, 2014
 NAACL HLT (North American Chapter of the Association for Computational Linguistics —
 Human Language Technologies Conference) 2009, 2012
 EACL (European Chapter of the Association for Computational Linguistics), 2009, 2017.
 Empirical Methods in Natural Language Processing, 2013, 2014
 International Workshop on Affective Interaction in Natural Environments, 2010, 2013
 Workshop on Real-Time Conversations with Virtual Agents, 2011
 Intelligent User Interfaces, 2009, 2010, 2011

ACM Multimedia 2010 Workshop on Affective Interaction in Natural Environments

MobileHCI 2008

Intelligent Virtual Agents, 2006, 2007

International Congress of Phonetic Science, 2007, 2011

Frontiers in Education, 2006 – 2010

Association for Machine Translation in the Americas, 2006

International Joint Conference on Natural Language Processing, 2004

International Natural Language Generation Conference, 2002, 2004

Computational Psycholinguistics Conference, 1997

Persistent Conversation Track at HICSS 2003

Prosody and Speech Recognition Session at ICSLP 2002

Virtual Conversational Characters Workshop, at the Australasian User Interface Conference, 2003

International Workshop on Lifelike Animated Agents: Tools, Affective Functions and Applications, at PRICAI, 2002

AAAI-94 Workshop on Integration of Natural Language and Speech Processing, 1994

Coling 2002, 2010

Cognitive Science Conference, 1994, 1998

OTHER

Reviewer for various tenure and promotion cases.

Reviewer for textbook proposals in HCI, Search Engines etc. for McGraw-Hill, Prentice-Hall, Pearson, and Wiley.

ARTICLES ON ISSUES IN EDUCATION

The (Un)Predictability of Computer Science Graduate School Admissions. *Communications of the ACM*, 50 (3), pp 104-106, March 2007.

Programming as a Discipline? Nigel Ward. *Communications of the ACM*, 40 (12), pp 113-114, December 1997.

The Nuts and Bolts of Engineering Education. Nigel Ward. Henry Dyer Symposium Proceedings. University of Tokyo, School of Engineering, 1997.

How to be a Terrible Thesis Advisor. Nigel Ward. Net posting 1994, reprinted in *ACM Crossroads*, 1 (3), 1995.

Japanese Engineering Education: Frustrations and Observations. Nigel Ward. 71st Spring Annual Meeting, Japan Society of Mechanical Engineers, 1994.

DEPARTMENT AND UNIVERSITY SERVICE

Engineering Faculty Council, Secretary, 2016–

Faculty Senate Teaching Effectiveness Committee, Secretary, 2013 –2015
 Department Chair, 2011 – 2012
 CCS Building, Construction Liaison and Move Coordinator, 2011 – 2012
 Faculty Senate Information Technology Committee, Chair 2008 – 2011
 CS Department, Computer Facilities Committee, Chair 2004 – 2011
 Department Webmaster 1997–2000, 2003 – 2011
 CS Graduate Program Committee Member 2008 – 2011
 University Information Technology Strategic Financial and Operational Planning Group Member, 2010 – 2011
 College of Engineering, Faculty Council Constitution Task Force, 2007 – 2008
 CS Graduate Program Chair / Graduate Advisor 2003–2005
 Faculty Senator 2002 – 2003

OTHER

SOCIETY MEMBERSHIPS

ACM (Association for Computing Machinery)
 and SigCHI (Computer-Human Interaction Special Interest Group)
 ISCA (International Speech Communication Association)
 and SProSig (Speech Prosody Special Interest Group)
 and SigDial (Special Interest Group on Dialog and Discourse)
 ACL (Association for Computational Linguistics)
 IPSJ (Information Processing Society of Japan)
 and SIG-SLP (Spoken Language Processing Special Interest Group)
 TESOL (Teachers of English to Speakers of Other Languages)

LANGUAGES

English, Japanese, some French, a little German and Spanish

CITIZENSHIP

USA

March 22, 2017