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Michael K. Tanenhaus
Curriculum Vitae

Business Address

Department of Brain and Cognitive Sciences
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Education

B.S., Speech and Hearing Science, The University of Iowa, 1973
M.A., Psychology, Columbia University, 1975
Ph.D., Psychology, Columbia University, 1978

Honors and Awards

Alumni Fellow, College of Arts and Sciences, University of Iowa, 2009
Beverly Petterson Bishop and Charles W. Bishop Professor of Brain and Cognitive Sciences, 2008 to present
Fellow, Cognitive Science Society, 2007
Fellow, American Association for the Advancement of Science (AAAS), 2006
Fellow, Association for Psychological Science (APS), 2005
University Award for Excellence in Graduate Teaching, University of Rochester, 2002
The Annual Distinguished Lecture in Symbolic Systems, Stanford University, April, 1999
The Nijmegen Lectures, Max Planck Institute for Psycholinguistics and University of Nijmegen, The Netherlands, December, 1997
Outstanding Senior Achievement Award, University of Iowa, 1973
Highest Distinction and Special Honors in Speech and Hearing Sciences, University of Iowa, 1973

Keynote Addresses:

IRCS workshop: Bridging the divide between processing and development, University of Pennsylvania, November, 2007.
European Conference on Eye Movements (ECEM), August, 2003
Architectures and mechanisms for Language Processing (AMLAP), August, 2003
Forum Lecture, LSA Summer Linguistics Institute, July, 2003
American Association for Artificial Intelligence, 2000
The Nijmegen Lectures, 1997
Society for Philosophy and Psychology, 1996
Association for Computational Linguistics, 1995
Cognitive Science Society, 1983

PROFESSIONAL EXPERIENCE

University of Rochester

Beverly Petterson Bishop and Charles W. Bishop Professor of Brain and Cognitive Sciences, 2008 to present
Professor, Department of Brain and Cognitive Sciences, 1995 to 2008.
Professor of Linguistics, 1996 to present

Director, Center for Language Sciences, 1996-1999; 2003 to present
Acting Chair, Department of Linguistics, 1996-1999
Chair, Department of Psychology, 1991-1992
Professor, Department of Psychology, 1987 to 1995.
Chair, Cognitive Science Cluster, 1985 to 1990
Associate Professor, Department of Psychology, 1983 to 1987

Wayne State University

Associate Professor, Department of Psychology, 1981 to 1983
Assistant Professor, Department of Psychology, 1977 to 1981

EXTERNAL GRANT SUPPORT

Structural, discourse, and pragmatic effects on binding, Co-PI (Jeffrey Runner, PI; Elsi Kaiser, Co-PI), National Science Foundation, 2002 to 2009. Total costs for most recent grant period (2006-2009) \$109,000.

Time course of spoken word recognition, PI (Richard Aslin, primary Co-PI; Joyce McDonough and Robert Jacobs, secondary Co-PIs). National Institute of Deafness and other Communication Disorders (NIDCD), 2001 to 2012. Total direct costs for current five year grant period (2007-2011), \$850,000.

Coordinating information in sentence processing, PI, National Institute of Child Health and Human Development (NICHD), (Greg Carlson and Christine Gunlogson Co-PIs), 1991-2010, Total direct costs for most recent five year grant period (2006-2010), \$843,750.

Training in the Language Sciences, PI, National Institute of Deafness and other Communication Disorders, (NIDCD) 1995-2009. Most recent grant period supports three post-doctoral fellows and five pre-doctoral fellows.

Time course of spoken word recognition, PI, National Science Foundation, (Richard Aslin, Co-PI), 1998-2001, Total costs, \$300,000.

The role of contrast in the on-line comprehension of focus constructions, Co-PI, National Science Foundation (Greg Carlson PI). 1994-1999. Total costs, \$130,000.

Lexical structure, parsing, and discourse integration, PI, National Science Foundation grant (Greg Carlson Co-PI). 1987-1990. Total costs, \$210,000

Evoked potential correlates of language comprehension, PI, (Susan Garnsey and Robert Chapman, Co-PIs). National Institute of Child Health and Development (NICHD) Total direct costs approximately \$400,000

Application of on-line methodologies to the study of linguistic representation PI, National Science Foundation grant (Greg Carlson Co-PI), 1982-1984. Total costs approximately \$160,000

Development and integration of lexical codes, PI, National Institute of Child Health & Human Development grant, 1981-1984 (Greg Carlson Co-PI); 1984-1987, (Mark Seidenberg Co-PI), Direct costs approximately \$240,000.

Lexical ambiguity resolution in discourse, PI, National Science Foundation grant, 1979-1980. Total costs approximately \$90,000.

The clausal processing hierarchy, National Science Foundation dissertation grant (with John M. Carroll), Supervisor: Thomas Bever, 1976-1977. Total costs, \$2,000.

REVIEWING AND EDITORIAL RESPONSIBILITIES:

Grant Panels

NSF Linguistics Panel, 1987-1990
NIH Language and Communication Panel (BBP3, LCOM) 2002-2006
Numerous NIH special emphasis and fellowship panels

Editing

Editor (one of six) *Language and Cognitive Processes*, 1986-1990.
Editorial Board, *Language and Cognitive Processes*, 1990-present
Editorial Board, *Cognition*, 1987-1992.
Editorial Board, *Journal of Experimental Psychology: General*, 1990-1995
Editorial Board, *Journal of Experimental Psychology: Learning, Memory and Cognition*, 1995-1997.
Co-Editor, Special Issue of *Journal of Memory and Language: Language-Vision Interactions*. November, 2007.

Journal Reviewing

Numerous reviews for *Science*, *Nature*, and all major cognitive journals, e.g., *Cognitive Psychology*, *Journal of Memory and Language*, *Journal of Experimental Psychology: LMC; HPP*; and *General*, *Psychological Review*, *Psychological Science*, *Psychological Bulletin*, *Cognition*, *Memory & Cognition*. Occasional reviewer for *Linguistic Inquiry*, *Language*, *Language and Speech*, *Trends in Cognitive Science*.

Conference Reviews

Meetings of the Cognitive Science Society (most years from 1983 to the present)
CUNY Sentence Processing Conference (most years from 1987 to the present)
Architectures and Mechanisms of Human Language Processing (AMLaP, 1996 to present)

Program Committee Member

Co-Organizer, CUNY Sentence Processing Conference, Rochester, 1988
Program Committee, CUNY Sentence Processing Conference (most years 1988 to present)
Cognitive Science Society Meetings, 1983, 2000, 2003

Executive Committee Member

CUNY Sentence Processing Conference, 2000 to present
Architecture and Mechanism of the Human Language Processing System (AMLaP), 1999 to present
External Advisory Committee Member, Michigan State University, IGERT training program, 2002-2005

Department and Program Reviews

Department of Cognitive and Linguistic Sciences, Brown University, 1992
Department of Psychology, University of Pennsylvania, 1993
Beckman Institute, University of Illinois, Biological Intelligence Theme, 1998
Brain and Behavior Cluster, Brown University, special focus on Department of Cognitive and Linguistic Sciences, 1999.
Beckman Institute, University of Illinois, Biological Intelligence Theme, 2002
Department of Linguistics, University of Pennsylvania, 2006

RESEARCH INTERESTS

As we are listening or reading, we develop interpretations without waiting until the ends of words, phrases or sentences. This process requires continuous coordination of different types of linguistic and non-linguistic information. Moreover, the sequential nature of the input means that numerous temporary ambiguities routinely arise.

My research focuses on the mechanisms underlying real-time language comprehension, spanning the traditional subfields of speech perception, word recognition, sentence processing, experimental pragmatics, and discourse and conversation. Much of my research has used ambiguity resolution as a vehicle for examining how information is coordinated during real-time language processing, addressing questions such as: (a) how is information from different linguistic subsystems represented, accessed, and combined; (b) how are linguistic and conceptual representations integrated and how do they interact during processing; and (c) to what extent is language processing accomplished by

specialized modules that operate according to principles unique to language (as contrasted with more general principles of information integration common to other perceptual and cognitive domains). A particular focus of this work has been on lexical representation and processing within a constraint-based framework. My research examining these issues makes use of a variety of experimental methods and computational models.

Most recently, my students and I have pioneered the use of eye tracking as a methodology for monitoring spoken language comprehension. Participants follow spoken instructions to manipulate real or computer displayed objects (e.g., Put the candle that's on the towel into the box). Eye movements to the objects are precisely time-locked to relevant information in the instruction as it unfolds, making it possible to study real-time comprehension of spoken language with natural tasks. The methodology is currently being applied to issues in spoken word recognition, syntactic and semantic processing, anaphora resolution, and interactive comprehension in collaborative. Two large-scale projects are underway.

The first project examines spoken word recognition in continuous speech, using English as well as artificial languages and a combination of experimentation and modeling. Recent work has traced the time course of lexical access, resolving outstanding issues about lexical competition and validating a quantitative linking hypothesis between lexical activation and fixations. Work underway examines the effects of subcategorical phonetic variation on lexical access, integrating classical issues in speech perception with investigations of lexical access. We propose that many otherwise puzzling characteristics of real time spoken language and speech processing can be accounted for by taking into account: (1) fine-grained time varying acoustic properties; (2) the contingencies that arise among these properties; and (c) how asynchronous cues are integrated in real-time. Most recently my colleagues and I have been exploring cue-integration, perceptual learning and use of speech cues that have alternative explanations by different subsystems, within a Bayesian framework.

The second project examines syntactic, semantic and pragmatic processing in natural contexts, including unscripted interactive conversation. This work bridges two broad traditions in language performance: (1) the "language-as-product" approach which focuses on the recovery (or creation) of context invariant linguistic structure in an utterance and (2) the "language-as-action" approach which views language processing as inextricably bound to a particular time and place, with speakers and hearers cooperating to create context-specific representations. Ongoing work focuses on how multiple sources of information, including prosody, goals and intentions, action-based affordances, and tracking of an interlocutor's likely knowledge are used to construct and dynamically update referential domains in comprehension, and most recently, during production in interactive conversation.

PUBLICATIONS:

Refereed Journal Articles:

Wagner Cook, S. & Tanenhaus, M.K. (in revision). Embodied communication: Speakers' gestures affect listeners' actions, *Cognition*

Kaiser, E., Runner, J.T., Sussman, R.S. & Tanenhaus, M.K. (in revision). Structural and semantic constraints on the resolution of pronouns and reflexives. *Cognition*

McMurray, B., Tanenhaus, M.K. & Aslin, R.N. (2009). Within-category VOT affects recovery from "lexical" garden paths: Evidence against phoneme-level inhibition. *Journal of Memory and Language*. 60 (1) 65-91.

McMurray, B. Clayards, M.A., Tanenhaus, M.K., Aslin, R.N. (2008). Tracking the time course of phonetic cue integration during spoken word recognition. *Psychonomic Bulletin & Review*. 15(6) 1064-1071

- McMurray, B., Aslin, R.N., Tanenhaus, M.K. Spivey, M.J. & Subik, D. (2008). Gradient sensitivity to within-category variation in words and syllables. *Journal of Experimental Psychology: Human Perception and Performance*, 34(6) 1609-1631.
- Watson, D., Tanenhaus, M.K. & Gunlogson, C. (2008). Interpreting pitch accents in on-line comprehension: H* vs L+H*. *Cognitive Science*, 32(7) 1232-1244.
- Pirog Revill, K., Tanenhaus, M.K. & Aslin R.N. (2008). Context effects on spoken word recognition in a novel lexicon. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 34 (5) 1207 -1223.
- Magnuson, J.S., Tanenhaus, M.K., Aslin, R.N. (2008). Immediate effects of form-class constraints on spoken word recognition. *Cognition*, 108, 866-873.
- Heller, D., Grodner, D. & Tanenhaus, M.K. (2008) The role of perspective in identifying domains of references. *Cognition*, 108, 811-836.
- Clayards, M.A., Tanenhaus, M.K., Aslin, R.N. & Jacobs, R.A. (2008). Perception of speech reflects optimal use of probabilistic speech cues. *Cognition*, 108, 804-809
- Pirog Revill, K., Aslin R.N., Tanenhaus, M.K. & Bavelier, D. (2008). Neural correlates of partial lexical activation. *Proceedings of the National Academy of Science*, 105, 35, 13110-13114.
- Brown-Schmidt, S. & Tanenhaus, M.K. (2008). Real-time investigation of referential domains in unscripted conversation: a targeted language game approach. *Cognitive Science*. 32, (4) 643-684.
- Brown-Schmidt, S., Gunlogson, C. & Tanenhaus, M.K. (2008). Addressees distinguish shared from private information when interpreting questions during interactive conversation. *Cognition*, 107, 1122-1134.
- Maye, J., Aslin, R.N. & Tanenhaus, M.K. (2008). The Weckud Wetch of the Wast: Lexical adaptation to a novel accent. *Cognitive Science*, 32, 3, 543-562.
- Wonnacott, E., Newport, E.L. & Tanenhaus, M.K. (2008). Acquiring and processing verb argument structure: distributional learning in a miniature language. *Cognitive Psychology*, 51, 165-209.
- Watson, D.G., Arnold, J.E. & Tanenhaus, M.K. (2008). Tic Tac TOE: Effects of predictability and importance on acoustic prominence in language production. *Cognition*, 106, 1548-1557.
- Tanenhaus, M.K. & Brown-Schmidt, S. (2008). Language processing in the natural world. In Moore, B.C.M., Tyler, L.K. & Marslen-Wilson, W.D. (eds.) *The perception of speech: from sound to meaning. Philosophical Transactions of the Royal Society B: Biological Sciences*, 363, 1105-1122.
- Creel, S.C., Aslin, R.N. & Tanenhaus, M.K. (2008). Heeding the voice of experience: The role of talker variation in lexical access. *Cognition*, 106, 633-664.
- Ferreira, F. & Tanenhaus, M.K. (2007). Introduction to special issue on language-vision interactions. *Journal of Memory and Language*, 57, 455-459.
- Arnold, J.E., Hudson Kam, C.L. & Tanenhaus, M.K. (2007). If you say thee uh- you're describing something hard: the on-line attribution of disfluency during reference comprehension. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 33, (5), 914-930.
- Salverda, A.P., Dahan, D., Tanenhaus, M.K., Crosswhite, K., Masharov, M., & McDonough, J. (2007). Effects of prosodically modulated sub-phonetic variation on lexical competition. *Cognition*, 105 (2), 466-476.
- Hare, M., Tanenhaus, M. K. & McRae, K. (2007). Understanding and producing the reduced relative construction: evidence from ratings, editing and corpora. *Journal of Memory and Language*, 56, 410-435.
- Tanenhaus, M.K. & Hare, M. (2007) Phonological typicality and sentence processing. *Trends in Cognitive Science*, 11, 93-95.
- Magnuson, J. S., Dixon, J. A., Tanenhaus, M. K., & Aslin, R. N. (2007). The dynamics of lexical competition during spoken word recognition. *Cognitive Science*, 31, 133-156.

- Creel, S.C., Tanenhaus, M.K. & Aslin, R.N. (2006). Consequences of lexical stress on learning an artificial lexicon. *Journal of Experimental Psychology: Learning, Memory & Cognition*, **32**, 15-32.
- Brown-Schmidt, S. & Tanenhaus, M.K. (2006). Watching the eyes when talking about size: An investigation of message formulation and utterance planning. *Journal of Memory and Language*, **54**, 592-609.
- Creel, S.C., Aslin, R.N. & Tanenhaus, M.K. (2006). Acquiring an artificial lexicon: effects of segment type and order information. *Journal of Memory and Language*, **54**, 1-19.
- Runner, J.T., Sussman, R.S. & Tanenhaus, M.K. (2006). Assigning referents to reflexives and pronouns in picture noun phrases. Experimental tests of Binding Theory. *Cognitive Science*, **30**, 1-49.
- McRae, K., Hare, M., & Tanenhaus, M.K. (2005). Meaning Through Syntax is insufficient to explain comprehension of sentences with reduced relative clauses: A critique of McKoon & Ratcliff (2003). *Psychological Review*, **112**, 1022-1031.
- Dahan, D. & Tanenhaus, M.K. (2005). Looking at the rope when looking for the snake: Conceptually mediated eye movements during spoken-word recognition. *Psychological Bulletin & Review*, **12**, 455-459.
- Brown-Schmidt, S., Byron, D. & Tanenhaus, M.K. (2005). Beyond salience: interpretation of personal and demonstrative pronouns. *Journal of Memory and Language*. **53**, 292-313.
- Arnold, J.A., Tanenhaus, M.K. Altmann, R.J., & Fagnano, M. (2004). The old and, thee, uh, new: Disfluency and reference resolution. *Psychological Science*, **9**, 578-582.
- Chambers, C.G., Tanenhaus, M.K & Magnuson, J.S. (2004). Action-based affordances and syntactic ambiguity resolution. *Journal of Experimental Psychology: Learning, Memory & Cognition*, **30**, 687-696.
- Dahan, D. & Tanenhaus, M.K. (2004). Continuous mapping from sound to meaning in spoken-language comprehension: Evidence from immediate effects of verb-based constraints. *Journal of Experimental Psychology: Learning, Memory & Cognition*, **30**, 498-513.
- Hanna, J.E. & Tanenhaus, M.K. (2004). Pragmatic effects on reference resolution in a collaborative task: evidence from eye movements. *Cognitive Science*, **28**, 105-115.
- Hanna, J.E., Tanenhaus, M.K. & Trueswell, J.C. (2003). The effects of common ground and perspective on domains of referential interpretation. *Journal of Memory and Language*, **49**, 43-61
- Magnuson, J.S., McMurray, B., Tanenhaus, M.K. & Aslin, R.N. (2003). Lexical effects on compensation for coarticulation: A tale of two systems? *Cognitive Science*, **27**, 105-106.
- Runner, J.T., Sussman, R.S. & Tanenhaus, M.K. (2003). Assignment of reference to reflexives and pronouns in picture noun phrases: Evidence from eye movements. *Cognition*, **81**, B1-13.
- Magnuson, J.S., Tanenhaus, M.K., Aslin, R.N. & Dahan, D. (2003). The time course of spoken word learning and recognition: Studies with artificial lexicons. *Journal of Experimental Psychology: General*, **132**, 202-227.
- Magnuson, J.S., McMurray, B., Tanenhaus, M.K. & Aslin, R.N. (2003). Lexical effects on compensation for coarticulation: the ghost of Christmash past. *Cognitive Science*, **27**, 285-298.
- Arnold, J.E., Fagnano, M. & Tanenhaus, M.K. (2003). Disfluencies signal thee, um, new information. *Journal of Psycholinguistic Research*, **32**, 25-36.
- McMurray, B., Tanenhaus, M.K., Aslin, R.N. & Spivey, M.J. (2003). Probabilistic constraint satisfaction at the lexical/phonetic interface: Evidence for gradient effects of within-category VOT on lexical access. *Journal of Psycholinguistic Research*, **32**, 77-97.
- McMurray, B., Tanenhaus, M.K. & Aslin, R.N. (2002). Gradient effects of within-category phonetic variation on lexical access. *Cognition*, **86**, B33-42.

- Spivey, M.J., Tanenhaus, M.K., Eberhard, K.M. & Sedivy, J.C. (2002). Eye movements and spoken language comprehension: Effects of visual context on syntactic ambiguity resolution. *Cognitive Psychology*, **45**, 447-481.
- Dahan, D., Tanenhaus, M.K. & Chambers, C.G. (2002). Accent and reference resolution in spoken language comprehension. *Journal of Memory and Language*, **47**, 292-314.
- Chambers, C.G., Tanenhaus, M.K., Eberhard, K.M., Filip, H. & Carlson, G.N. (2002). Circumscribing referential domains in real-time sentence comprehension. *Journal of Memory and Language*, **47**, 30-49.
- Dahan, D., Magnuson, J.S., Tanenhaus & Hogan, E. (2001). Subcategorical mismatches and the time course of lexical access: evidence for lexical competition. *Language and Cognitive Processes*, **16**, 507-534.
- Spivey, M.J., Tyler, M.J., Eberhard, K.M. & Tanenhaus, M.K. (2001). Linguistically mediated visual search. *Psychological Science*, **12**, 282-286.
- Dahan, D., Magnuson, J.S. & Tanenhaus, M.K. (2001). Time course of frequency effects in spoken word recognition: evidence from eye movements. *Cognitive Psychology*, **42**, 317-367.
- Tanenhaus, M. K., Magnuson, J. S., Dahan, D., & Chambers, C. G. (2000). Eye movements and lexical access in spoken language comprehension: Evaluating a linking hypothesis between fixations and linguistic processing. *Journal of Psycholinguistic Research*, **29**, 557-580.
- Dahan, D., Swingley, D., Tanenhaus, M.K., & Magnuson, J.S. (2000). Linguistic gender and spoken word recognition in French. *Journal of Memory and Language*, **42**, 465-480.
- Tabor, W. & Tanenhaus, M.K. (1999). Dynamical theories of sentence processing. *Cognitive Science*, **23**, 491-515.
- Sedivy, J.E., Tanenhaus, M.K., Chambers, C.G. & Carlson, G.N. (1999). Achieving incremental interpretation through contextual representation: Evidence from the processing of adjectives. *Cognition*, **71**, 109-147.
- McRae, K., Spivey-Knowlton, M.J. & Tanenhaus, M.K. (1998). Modeling thematic fit (and other constraints) within an integration competition framework. *Journal of Memory and Language* **38**, 283-312.
- Spivey, M.J. & Tanenhaus, M.K. (1998). Syntactic ambiguity resolution in discourse: Modeling the effects of referential context and lexical frequency. *Journal of Experimental Psychology: Learning, Memory and Cognition*, **24**, 1521-1543.
- Alloppenna, P. D., Magnuson, J.S. & Tanenhaus, M.K. (1998). Tracking the time course of spoken word recognition: evidence for continuous mapping models. *Journal of Memory and Language*, **38**, 419-439.
- Tabor, W., Juliano, C.J. & Tanenhaus, M.K. (1997). Parsing in a dynamical system: An attractor-based account of the interaction of lexical and structural constraints in sentence processing. *Language and Cognitive Processes*, **12**, 211-271.
- Tanenhaus, M.K. & Spivey-Knowlton, M.J. (1996). Eye-tracking. In F. Grosjean & U. Frauenfelder (eds). *Language and Cognitive Processes: A guide to spoken word recognition paradigms*, **11**, 583-588.
- Eberhard, K.M., Spivey-Knowlton, M.J., Sedivy, J.C. & Tanenhaus, M.K. (1995). Eye-movements as a window into spoken language comprehension in natural contexts. *Journal of Psycholinguistic Research*, **24**, 409-436.
- Boland, J.E., Tanenhaus, M.K., Garnsey, S.M. & Carlson, G.N. (1995). Verb argument structure in parsing and interpretation: Evidence from wh-questions. *Journal of Memory and Language*, **34**, 774-806.
- Tanenhaus, M.K., Spivey-Knowlton, M.J., Eberhard, K.M. & Sedivy, J.E. (1995). Integration of visual and linguistic information in spoken language comprehension. *Science*, **268**, 1632-1634.
- Maurer, G.A., Tanenhaus, M.K. & Carlson, G.N. (1995). A note on parallelism effects on processing verb phrase anaphors. *Language and Cognitive Processes*, **10**, 1-12.

- Maurer, G.A., Tanenhaus, M.K. & Carlson, G.N. (1995). Implicit arguments in sentence processing. *Journal of Memory and Language*, **34**, 357-382
- Juliano, C. & Tanenhaus, M.K. (1994). A constraint-based lexicalist account of the subject/object attachment preference. *Journal of Psycholinguistic Research*, **23**, 459-471.
- Trueswell, J.C., Tanenhaus, M.K. & Garnsey, S.M. (1994). Semantic effects in parsing: Thematic role information in syntactic ambiguity resolution. *Journal of Memory and Language*, **33**, 285-318.
- Spivey-Knowlton, M.J., Trueswell, J.C. & Tanenhaus, M.K. (1993). Context effects in syntactic ambiguity resolution: Effects of discourse and semantic context in parsing reduced relative clauses. *Canadian Journal of Psychology*, **47**, 276-309.
- Trueswell, J.C., Tanenhaus, M.K. & Kello, C. (1993). Verb-specific constraints in sentence processing: Separating effects of lexical preference from garden-paths. *Journal of Experimental Psychology: Learning, Memory & Cognition*, **19**, 528-553.
- Stowe, L.A., Tanenhaus, M.K. & Carlson, G.N. (1991). Filling gaps on-line: Use of lexical and semantic information in sentence processing. *Language and Speech*, **34**, 319-340.
- Trueswell, J.C. & Tanenhaus, M.K. (1991). Tense, temporal context and syntactic ambiguity resolution. *Language and Cognitive Processes*, **6**, 303-338.
- Boland, J.E., Tanenhaus, M.K. & Garnsey, S.M. (1990). Evidence for immediate use of verb-based "control" information in sentence processing. *Journal of Memory and Language*, **29** 413-432.
- Lucas, M., Tanenhaus, M.K. & Carlson, G.N. (1990). Levels of representation in the interpretation of anaphoric reference and instrument inference. *Memory & Cognition*, **18**, 611-631.
- Tanenhaus, M.K. & Carlson, G.N. (1990). Comprehension of deep and surface verb phrase anaphors. *Language and Cognitive Processes* **5**, 257-280.
- Boland, J.E., Tanenhaus, M.K., Carlson, G. & Garnsey, S.M. (1989). Lexical projection and the interaction of syntax and semantics in parsing. *Journal of Psycholinguistic Research*, **18**, 563-576.
- Burgess, C., Tanenhaus, M.K. & Seidenberg, M.S. (1989). Context and lexical access: Implications of nonword interference for lexical ambiguity resolution. *Journal of Experimental Psychology: Learning, Memory & Cognition*, **15**, 620-632.
- Garnsey, S.M., Tanenhaus, M.K. & Chapman, R.M. (1989). Evoked potentials and the study of sentence comprehension. *Journal of Psycholinguistic Research: Special Issue on Sentence Processing*, **18**, 51-60.
- Tanenhaus, M.K., Boland, J.E., Garnsey, S.M. & Carlson, G.N. (1989). Lexical structure in parsing long-distance dependencies. *Journal of Psycholinguistic Research: Special Issue on Sentence Processing*, **18**(1), 37-50.
- Tanenhaus, M.K., Carlson, G.N. & Trueswell, J.C. (1989). The role of thematic structures in interpretation and parsing. *Language and Cognitive Processes*, **4**, 211-234.
- Tanenhaus, M.K. & Lucas, M.M. (1987). Context effects in lexical processing. *Cognition*, **25**, 213-234.
- Zecker, S.G., Tanenhaus, M.K., Alderman, L. & Siqueland, L. (1986). Lateralization of lexical codes. *Brain and Language*, **29**, 372-389.
- Hudson, S.B. & Tanenhaus, M.K. (1985). Phonological activation in sentence comprehension. *Journal of Psycholinguistic Research*, **14**, 557-567.
- Seidenberg, M.S., Waters, G., Barnes, M.A. & Tanenhaus, M.K. (1984). When does spelling sound regularity influence visual word recognition? *Journal of Verbal Learning and Verbal Behavior*, **23**, 383-404.
- Tanenhaus, M.K. & Donnenwerth-Nolan, S. (1984). Syntactic context and lexical access. *Quarterly Journal of Experimental Psychology*, **36A**, 649-661.
- Zecker, S.G., Tanenhaus, M.K., Glaros, A. & Whitman, R.W. (1984). Effects of subvocalization on contextual constraint in sentence processing. *Journal of Psycholinguistic Research*, **13**, 177-193.

- Seidenberg, M.S., Tanenhaus, M.K., Leiman, J.M. & Bienkowski, A. (1982). Automatic access of lexical ambiguity: Some limitations of knowledge-based processing. *Cognitive Psychology*, **14**, 489-537.
- Donnenwerth-Nolan, S., Tanenhaus, M.K. & Seidenberg, M.S. (1981). Multiple code activation: Evidence from rhyme monitoring. *Journal of Experimental Psychology: Human Learning and Memory*, **7**, 170-180.
- Tanenhaus, M.K. & Seidenberg, M.S. (1981). Discourse context and sentence perception. *Discourse Processes*, **4**, 197-220.
- Tanenhaus, M.K., Flanigan, H.P. & Seidenberg, M.S. (1980). Orthographic and phonological code activation in auditory and visual word recognition. *Memory & Cognition*, **8**, 513-520.
- Seidenberg, M.S. & Tanenhaus, M.K. (1979). Orthographic effects in rhyme monitoring. *Journal of Experimental Psychology: Human Learning and Memory*, **5**, 546-554.
- Tanenhaus, M.K., Leiman, J.M. & Seidenberg, M.S. (1979). Evidence for multiple stages in the processing of ambiguous words in syntactic contexts. *Journal of Verbal Learning and Verbal Behavior*, **18**, 427-441.
- Carroll, J.M. & Tanenhaus, M.K. (1978). Functional clauses and sentence segmentation. *Journal of Speech and Hearing Research*, **21**, 693-708.
- Tanenhaus, M.K., Carroll, J.M. & Bever, T.G. (1976). Sentence-picture verification models as theories of sentence comprehension: A critique of Carpenter and Just. *Psychological Review*, **83**, 310-317.

Edited Books

- Trueswell, J.C. & Tanenhaus, M.K., (Eds.) (2005). *Processing world-situated language: Bridging the language-as-action and language-as-product traditions*. Cambridge, Mass: MIT Press.
- Carlson, G. & Tanenhaus, M.K. (Eds.) (1988). *Linguistic structure in language processing*. Reidel Press.
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Book Chapters:

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INVITED COLLOQUIA AND PRESENTATIONS (1986 to present)

2008:

- McGill University, Center for Language, Mind and Mind, Distinguished Lecture Series, December, 2008.
- Northwestern University, Technology & Social Behavior, Distinguished Colloquium Speaker Series, November, 2008.
- École Normale Supérieure in Paris, Department of Cognitive Studies. Four lectures at Fall School (Ealing 6), September, 2008.
- University of Ottawa, Distinguished Lecture in Cognitive Science, April, 2008.
- University of South Carolina, Brown bag and formal colloquium, April, 2008.
- Cornell University, Cognitive Studies Colloquium, March, 2008.

2007:

- University of Rochester, Invited speaker, Workshop on Assisted Cognition, Rochester, New York, October.
- University of Pennsylvania, Keynote speaker, IRCS workshop: Bridging the divide between language processing and language learning., November, 2007.
- Tufts University Invited speaker, Workshop on meaning from Language, Medford, Mass., April, 2007.

2006:

- Invited speaker, Workshop on Eye Movements. Meetings of the Cognitive Science Society, Vancouver, Canada.
- LOVE conference: Introduction of Richard N. Aslin, February, 2006
- University of Maryland, Brown bag talk and formal colloquium, March, 2006

University of Michigan, Invited speaker for inaugural seminar for Language and Mind major and colloquium, April, 2006.
 Washington University, St Louis. Colloquium in Brain and Behavior series, May, 2006
 University of Gronigen (The Netherlands). Invited speaker, Workshop on Ambiguity in Language, June, 2006.
 National Science Foundation Workshop: Frontiers of Mind and Brain, July, 2006, Washington, D.C.
 University of Rochester, Neurology Grand Rounds, August, 2006
 The Ohio State University, Commentator, Workshop on Accommodating Presuppositions, October, 2006.
 University of Rochester, Cognitive Science Dinner Talk, November, 2006.

2005:
 Invited speaker, Experimental Pragmatics Conference, Cambridge England, April, 2005.
 Invited lecturer, University of Milan at Bocaccio, May, 2005. Three lectures.

2004:
 Invited speaker, CATALOG: Seventh annual conference on semantics and dialogue. Barcelona, Spain, July, 2004.
 The Ohio State University, Department of Linguistics colloquium, October, 2004
 The Ohio State University, Presentation to the Pragmatics Working Group, October, 2004
 Invited speaker, First NWO Cognitive Science Summer School on "Language and Perception: From Stimulus to Understanding". Doorwerth, Netherlands, October, 2004.
 Invited speaker, Cornell Workshop on Language Universals, Ithaca, NY., May, 2004.

2003:
 Columbia University, Language and Cognition University Lecture, October, 2003.
 Keynote Address, European Conference on Eye Movements, Dundee, Scotland, August, 2003
 Invited Speaker AMLaP (Architectures and Mechanisms for Language Processing), Glasgow, Scotland, 2003
 Linguistic Institute of America, Forum Lecture, East Lansing, MI, July, 2003
 Invited talk HPSG Conference, East Lansing, MI, July, 2003
 University of Wisconsin, Department of Psychology Colloquium, May, 2003
 University of Wisconsin, Language and Mind Seminar Lecture, May 2003
 The Johns Hopkins University, Center for Speech and Language Processing Colloquium, March, 2003.
 Vancouver Workshops in Cognitive Science: Discourse: Reference Resolution, Simon Fraser University, Vancouver, February, 2003.
 AAAS Meetings, Symposium organizer and speaker, The eyes have it: eye movements and spoken language. Denver, February, 2003

2002:
 University of Illinois, Beckman Institute, Language Processing Colloquium
 Princeton University, Department of Psychology Colloquium, March, 2002
 University of Connecticut, Cognitive Science Colloquium, April, 2002
 Haskins Research Laboratory Research Talk, April 2002
 MSU Workshop on "Eye movements in language, perception and action". East Lansing, Michigan, May, 2002
 University of Calgary, Department of Psychology Colloquium, June, 2002

2001:
 Invited Presentation, CUNY Sentence Processing Conference, University of Pennsylvania, March 2001.
 Formal Colloquium Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, October 2001.
 Informal Lecture, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, October 2001.

Invited Presentation, Language Comprehension Symposium, European Society of Cognitive Psychology, Edinburgh, Scotland, September 2001.

Department of Psychology, York University, York, England, September 2001.

Colloquium, Cognition and Brain Science Unit, MRC, Cambridge, September 2001.

2000:

Workshop on Spoken Word Access and Processes, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, May, 2000

Brown bag talk, University of Southern California, March, 2000

Inaugural Address, Cognitive Science Program, SUNY Oswego, April, 2000

Invited Address, American Association for Artificial Intelligence, Austin, Texas, August, 2000.

Cognitive Science Dinner Presentation, University of Rochester, May, 2000

1999:

University of Buffalo, Cognitive Science Colloquium, January, 1999

Texas Linguistics Forum, Keynote address, February, 1999

Stanford University, Distinguished Lecture in Symbolic Systems, April, 1999

Johns Hopkins University, Workshop in Speech and Language, June, 1999.

NSF Workshop on Spatial Intelligence, October, 1999

Northwestern University, Cognitive Science Colloquium, October, 1999

Notre Dame University, Department of Psychology Colloquium, December, 1999

Michigan State University, Speaker in Distinguished Speakers in Cognitive Science Series, December 1999

State University of New York at Binghamton, Brown Bag and Psychology Department Colloquium, October, 1999

University of Pennsylvania, Department of Psychology Colloquium, November, 1999

The Johns Hopkins University, Department of Cognitive Science Colloquium, November 1999

1998:

Rutgers University, Center for Cognitive Science, February, 1998

New York University, Department of Psychology and Mental Representation Roundtable Colloquium, March, 1998

University of Delaware, Brown Bag and Cognitive Science Colloquium, April, 1998.

1997:

European Cognitive Psychology Summer School on Psychology of Language, Bressanone, Italy (four lectures to post-docs and advanced Ph.D. students)

York University, York, England, 1997

University of Pennsylvania (short-term visitor, two seminars), February, 1997

University of Arizona (three seminars), March, 1997

Invited address presented to Society of Philosophy and Psychology, New York, N.Y. June, 1997,

York University, York, England, September, 1997

1997 Nijmegen Lectures: Real-time language comprehension with natural tasks: A constraint-based perspective (two lectures and four seminars), Nijmegen, The Netherlands, December 15-17, 1997.

University of Saarbrücken, Saarbrücken, Germany (two colloquia)

Freiberg University, Freiberg, Germany

University of Provence, Provence, France (two colloquia)

1996:

University of Pennsylvania

Northeastern University

The Ohio State University

Workshop on Future Directions in Linguistics: Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

Invited address presented to the 34th Annual Meeting of the Association for Computational Linguistics, Santa Cruz, California
University of Western Ontario

1995:

University of Maryland, Department of Linguistics Colloquium
University of Southern California, Department of Linguistics Colloquium, Department of Psychology Colloquium

University of Minnesota

University of Chicago

MIT: RTG colloquium series

LOVE Conference, Niagara Falls, Canada

Invited Address, First annual workshop on "Architecture and Mechanisms for Language Processing" (AMLaP), Edinburgh, Scotland.

University of Edinburgh, Edinburgh Scotland. Cognitive Science Colloquium

1994:

Attention and Performance XVI: Information Integration in Perception and Communication, Kyoto, Japan

Workshop on Language Comprehension, Lake Geneva, Wisconsin

Beckman Institute, University of Illinois, Cognitive Science Colloquium

Brown University, Department of Linguistics and Cognitive Science

1993:

Invited speaker, Conference on The Robustness of the Language Faculty, Utrecht, The Netherlands

Colloquium, Max Plank Institute for Psycholinguistics, Nijmegen, The Netherlands

University of Groningen, Groningen, The Netherlands

Workshop on Centering, Institute for Research in Cognitive Science, University of Pennsylvania

University of Massachusetts at Amherst

University of Buffalo

1992:

CUNY Sentence Processing Conference

SUNY Albany

Northwestern University

CSLI, Stanford University

University of Illinois

1991:

University of Pennsylvania

Syracuse University

L.O.V.E. Conference, Niagara Falls, Canada

1990:

Sperlonga Workshop on Cognitive Mechanisms in Speech, Sperlonga, Italy

University of Ottawa

Princeton University

Wellesley College

Georgia Tech University

1989:

CUNY Sentence Processing Conference, New York, NY

Conference on Representation of Knowledge and Language, University of Groningen, The Netherlands

Tutorial, "Psycholinguistic Approaches to Comprehension," Association of Computational Linguistics

Massachusetts Institute of Technology Cognitive Science Colloquium

Sylvia Beach Language Comprehension Workshop, Sylvia Beach, Oregon.

Cognitive Science Society Meetings: Panel on empty categories in sentence processing.

Workshop on "When Words Happen to be Phrases," Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

1988:

Workshop on Cognitive Mechanisms in Speech, Sperlonga, Italy

Workshop on Lexical Ambiguity Resolution, Adelphi University

Cognitive Science Society Meetings, Montreal: Panel on Syntactic Processing

University of Chicago

Conference on Sentence Processing, City University of New York

Eastern States Conference on Linguistics (ESCOL), Philadelphia

Midwestern Psychological Association

CSLI and Stanford University

Conference on Grammar and Processing, University of Maryland

Workshop on Language and Connectionism, Rome, Italy

1987:

University of Pennsylvania

1986:

University of Pennsylvania

Johns Hopkins University

LOVE Conference, Niagara Falls, Canada

Zangwill Club, Cambridge University

University of Leiden, The Netherlands

Instituti di Psicologia, Rome, Italy

University of Bologna, Italy

University of Geneva, Switzerland

POST-GRADUATE SUPERVISION

Ph.D. students in Academia

Wayne State University

Steven Zecker, 1979. School of Communication, Northwestern University

University of Rochester

Curt Burgess, 1991, Department of Psychology, University of California, Riverside

Julie Boland, 1991, Dept of Linguistics and Dept. of Psychology, University of Michigan

John Trueswell, 1993, Department of Psychology, University of Pennsylvania

Gail Mauner, 1995, Department of Psychology, State University of New York at Buffalo

Michael Spivey, 1995, Department of Psychology, Cornell University

Julie Sedivy, 1997, Department of Cognitive and Linguistic Sciences, Brown University

Craig Chambers, 2000, Department of Psychology, University of Toronto

Joy Hanna, 2001, Department of Psychology, Oberlin College

James Magnuson, 2002, Department of Psychology, University of Connecticut

Bob McMurray, 2004, Department of Psychology, University of Iowa

Sarah Brown-Schmidt, 2005, Beckman Fellow, University of Illinois, faculty position to begin in 2010, Department of Psychology, University of Illinois at Urbana-Champaign.

Rachel S. Sussman, 2006, Postdoctoral Fellow, Department of Psychology, University of Wisconsin at Madison.

Ellen Campana, 2007, Department of Arts and Media, Department of Psychology, Arizona State University.

Kathleen A. Pirog, 2007. Postdoctoral Fellow, Department of Psychology, Georgia Tech University

Meghan A. Clayards, 2008. Postdoctoral Fellow, York University, York, England.

Mikhail Masharov, 2008.

Wayne State University

Karen Zabrocky, Department of Psychology, University of Georgia

Post-doctoral Students in Academia

University of Rochester

Margery Lucas, Department of Psychology, Wellesley College

Laurie Stowe, Department of Linguistics, University of Gronigen (The Netherlands)

Susan Garnsey, Department of Psychology, University of Illinois

Ken McRae, Department of Psychology, University of Western Ontario

Chris Barker, Department of Linguistics, NYU.

Kathleen Eberhard, Department of Psychology, Notre Dame University

Whitney Tabor, Department of Psychology, University of Connecticut

Delphine Dahan, Department of Psychology, University of Pennsylvania

Jennifer Arnold, Department of Psychology, University of North Carolina

Katherine Crosswhite, Department of Linguistics, Rice University

Duane Watson, Department of Psychology, University of Illinois

Elsi Kaiser, Department of Linguistics, University of Southern California.

Lynsey Wolter, Department of English, Eau Claire University

Daphna Hellar, University of Toronto (post-doc)

Ph.D. students not in academia

Wayne State University

James Leiman, 1981, Senior Vice President, Morpace International.

Suzanne Donnenwerth-Nolan, 1982, Patent attorney.

University of Rochester

Susan Hudson d'Zmura, 1989, Graphics Interface and Graphic Arts Designer.

Cornell Juliano, 1999, Usability Specialist, Xerox Corporation.

Post-doctoral students not in Academia

Paul Allopenna, Cognitive Scientist, Human Performance Division, Aptima Corp.

Giannaluca Storto, Research Scientist, Google.