

July, 2016

**Michael K. Tanenhaus**  
**Curriculum Vitae**

**Business Address**

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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**

Appointed Chair Professor, Nanjing Normal University, Nanjing China, 2016  
Honorary Visiting Professor, Nanjing Normal University, Nanjing China, 2014  
Member, American Academy of Arts and Sciences, 2011  
Alumni Fellow, College of Arts and Sciences, University of Iowa, 2009  
Appointed first Beverly Petterson Bishop and Charles W. Bishop Professor, April, 2008  
Fellow, Cognitive Science Society, 2007  
Fellow, American Association for the Advancement of Science, 2006  
Fellow, Association for Psychological Science, 2005  
University Award for Excellence in Graduate Teaching, University of Rochester, 2002  
Outstanding Senior Achievement Award, University of Iowa, 1973  
Highest Distinction and Special Honors in Speech and Hearing Sciences, University of Iowa, 1973

**Keynote Addresses:**

Clinical Aphasiology Conference (CAC), Monterey CA, May, 2015  
ESLP (Embodied and Situated Language Processing), Rotterdam, August 2014.  
SIGDIAL, Portland, June 2011.  
CUNY Sentence Processing Conference, NYU, March 2010.  
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 Institute, July 2003, East Lansing, MI.  
American Association for Artificial Intelligence, UC Santa Cruz, 2000  
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

Society for Philosophy and Psychology, NYU, New York City, 1996  
Association for Computational Linguistics, Vancouver, 1995  
Cognitive Science Society, Rochester, N.Y. 1983

## **PROFESSIONAL EXPERIENCE**

### **University of Rochester**

Chair Professor, Nanjing Normal University, China, 2016 to present  
Beverly Petterson Bishop and Charles W. Bishop Professor of Brain and Cognitive Sciences, April, 2008 to present.  
Professor, Department of Brain and Cognitive Sciences, 1995 to 2008.  
Professor of Linguistics, 1996 to present  
Visiting Professor, LSA Summer Institute, 1987, 2007, 2011  
Director, Center for Language Sciences, 1996-1999; 2003 to 2009  
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**

*Coordinating information in sentence processing*, PI, National Institute of Child Health and Human Development (NICHD), (Greg Carlson and Christine Gunlogson Co-PIs), 1991-2017, Total direct costs for most recent five year grant period, \$1,150,00.  
*Time course of spoken word recognition*, PI (Richard Aslin, primary Co-PI; Robert Jacobs, secondary Co-PI). National Institute of Deafness and other Communication Disorders (NIDCD), 2001 to 20012; National Institute of Child Health and Human Development, NICHD, 2012-2017. Total direct costs for current four year grant period, \$680,000.  
*Training in the Language Sciences*, PI, National Institute of Deafness and other Communication Disorders, (NIDCD) 1995-2016. Last grant period supported three post-doctoral fellows and five pre-doctoral fellows.  
*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, 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 (2007 to present)

NIH CSR College of Scientific Reviewers (term deferred until 2011-214).

### **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 and Review*, *Cognition*, *Memory & Cognition*. Occasional reviewer for *Linguistic Inquiry*, *Language*, *Language and Speech*, *Language Learning & Development*, *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

Department of Linguistics and Cognitive Science, Pomona College, 2014.

#### **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.

A particular focus of this work was lexical representation and processing within a constraint-based framework. I continue to examine those issues using of a variety of experimental methods and computational models.

In the mid-1990s, my students and I 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) or engage in interactive conversation to solve joint tasks in this visual world. 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 and production 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 tasks. 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 sub-categorical 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, using a generative models, “data explanation” framework. Much of our recent work on these topics examines how expectations based on prosody influence word segmentation.

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. Much of this research addresses issues in experimental pragmatics. An emerging focus is on the question of how people create contexts, including questions about the extent to which contexts are shared across modalities. For example, if people group objects together perceptually, will the objects in that grouping form a natural referential domain? This question arises out of recent work demonstrating that likely context-specific linguistic alternatives have a major impact on pragmatic inference.

#### **IMPACT MEASURES:**

Google Scholar: H-index: 73; Citations: >22,000; ~9,000 in last 5 years (includes articles, books, chapters and proceedings papers)

Web of Science (ISS) H-index: 47; Citations: >8,500 (ISS includes only articles published in journals)

#### **PUBLICATIONS: (>250)**

##### **Refereed Journal Articles: (>125)**

Brown, M., Dilley, L.A. & Tanenhaus, M.K. (in preparation). Probabilistic prosody: Evidence for a data-explanation approach to speech processing. To be submitted to *Cognitive Psychology*

Biby, S., Gunlogson, C. & Tanenhaus, M.K. (revision in preparation). That's a question (?): A targeted language game study of rises and falls in information-seeking declaratives. *Laboratory Phonology*

Bicknell, K., Tanenhaus, M.K. & Jaeger, T.F. (under review). Listeners can maintain and rationally update uncertainty about prior words.

Kurumada, C., Brown, M. & Tanenhaus, M.K. (revision in preparation). Adaptation and inference in pragmatic interpretation of English contrastive prosody. *Cognitive Psychology*.

Chen, Q.R., Bai L., Xu, X., Yang, Y. & Tanenhaus, M.K. (in press). The effect of contextual diversity on eye movements in Chinese reading. *Psychonomic Bulletin & Review*.

Chen, Q.R., Zhang, J., Xu, X., Scheepers C.S., & Tanenhaus, M.K. (2016). Prosodic

- expectations in silent reading: ERP evidence from rhyme scheme and semantic congruence in classic Chinese poems. *Cognition*, 154, 11-21.
- Buz, E., Tanenhaus, M.K. & Jaeger, T.F. (2016). Dynamically adapted context-specific hyper-articulation: Feedback from interlocutors affects speakers' subsequent pronunciations. *Journal of Memory and Language*, 89, 68-86.
- Ibarra, A. & Tanenhaus, M.K. (2016). The flexibility of conceptual pacts: referring expressions dynamically shift to accommodate new conceptualizations. *Frontiers in Psychology*, 7, Paper 561.
- Gegg-Harrison, W.M. & Tanenhaus, M.K. (2016). What's in a name? Interlocutors dynamically update expectations about shared names. *Frontiers in Psychology*, 7, Paper 212.
- Pogue, A., Kurumada, C. & Tanenhaus, M.K. (2016) Talker-specific generalization of pragmatic inferences based on under- or over-informative prenominal adjective use. *Frontiers in Psychology*, 6, Paper 2035.
- Yildirim, I., Degen, J., Tanenhaus, M.K. & Jaeger, T.F. (2016). Talker-specificity and adaptation in quantifier interpretation. *Journal of Memory and Language*, 87, 128–143.
- Degen, J. & Tanenhaus, M.K. (2016). Alternatives and the processing of scalar implicatures: a visual world eye-tracking study. *Cognitive Science*, 40, 172–201.
- Heeren, W., Bibyk, S., Gunlogson, C. & Tanenhaus, M.K. (2015). Asking or telling – real-time processing of prosodically distinguished questions and statements. *Language and Speech*, 58 (4) 474–501.
- Farmer, T.A. Yang, S., Bicknell, K., & Tanenhaus, M.K. (2015). Form-to-expectation matching effects on first-pass eye movement measures during reading. *Journal of Experimental Psychology: Human Perception and Performance*, 41(4), 958–976.
- Heller, D., Arnold, J.E., Klein, N.M. & Tanenhaus, M.K. (2015). Inferring difficulty: Flexibility in the real-time processing of disfluency. *Language and Speech* 58(2), 190-203.
- Degen J. & Tanenhaus, M.K. (2015). Processing scalar implicature: A constraint-based approach. *Cognitive Science*, 39, 667–710.
- Brown, M., Salverda, A.P., Dilley, D.A. & Tanenhaus, M.K. (2015). Metrical expectations from preceding prosody influence perception of lexical stress. *Journal of Experimental Psychology: Human Perception and Performance*, 41 (2), 306–323
- Kim, C.S., Gunlogson, C., Tanenhaus, M.K. & Runner, J.T. (2015). Context-driven expectations about focus alternatives, *Cognition*, 139, 28-49.
- Carbary, K., Brown, M., Gunlogson, C., Fazlipour, A., McDonough, J.M. & Tanenhaus, M.K. (2015). Anticipatory deaccenting in online language comprehension: A phonemic restoration study. *Language, Cognition and Neuroscience*, 30, 197-211.
- Brown, M., Salverda, A.P. Gunlogson, C. & Tanenhaus, M.K. (2015). Interpreting prosodic cues in discourse context. *Language, Cognition and Neuroscience*, 30, 149-166.
- Kurumada, C., Brown, M., Bibyk, B., Pontillo, D.F. & Tanenhaus, M.K. (2014). Is it or isn't it: Listeners make rapid use of prosody to infer speaker meanings. *Cognition*, 133, 235-242.
- Kim, C.S., Carbary, K. & Tanenhaus, M.K. (2014). Syntactic priming without lexical overlap in reading comprehension, *Language and Speech*, 57 (2), 181-195.

- Salverda, A.P. Kleinschmidt, D. & Tanenhaus, M.K. (2014). Immediate effects of anticipatory coarticulatory information in spoken-word recognition. *Journal of Memory and Language* 71, 145–163
- Klein, N.M., Gegg-Harrison, W., Carlson, G.N. & Tanenhaus, M.K. (2013). Experimental studies of weak definite and indefinite noun phrases. *Cognition*, 128, 187-213.
- Gorman, K.S., Gegg-Harrison, W., Marsh, C.M. & Tanenhaus, M.K. (2013). What's learned together stays together: speakers' choice of referring expression reflects shared experience. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 39 (3), 843-853.
- Creel, S.C., Aslin, R.N. & Tanenhaus, M.K. (2012). Word learning under adverse listening conditions: Context-specific recognition. *Language and Cognitive Processes*, 27 (7/8), 1021-1038.
- Aist, G., Campana, E.M., Allen, J.F. & Tanenhaus, M.K. (2012). Fruit Carts: a domain and corpus for psycholinguistics and dialogue systems research. *Computational Linguistics*. 38 (3), 469–478.
- Heller, D., Gorman, K. S & Tanenhaus, M.K. (2012). To name or to describe: shared knowledge affects choice of referential form. *Topics in Cognitive Science*, 4 (2) 290-305.
- Brown, M., Salverda, A.P., Dilley, D.A. & Tanenhaus, M.K. (2011). Expectations from preceding prosody influence segmentation in online sentence processing. *Psychonomic Bulletin & Review*. 18(6), 1189-1196.
- Wolter, L., Gorman, K.S. & Tanenhaus, M.K. (2011). Scalar reference, contrast and discourse: Separating effects of linguistic discourse from availability of the referent. *Journal of Memory and Language*, 65 (3), 299-317.
- Salverda, A.P., Brown, M., & Tanenhaus, M.K. (2011). A goal-based perspective on eye movements in visual-world studies. *Acta Psychologica*, 137(2), 172-180.
- Campana, E.M., Tanenhaus, M.K., Allen, J.F. & Remington, R. (2011). Natural discourse reference generation reduces cognitive load. *Journal of Natural Language Engineering*. 17 (3), 311-329.
- Salverda, A.P. & Tanenhaus, M.K. (2010). Tracking the time course of orthographic information in spoken-word recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 36 (5), 1108-1117.
- Grodner, D. Klein, N. Carbary, K. & Tanenhaus, M.K. (2010). “Some,” and possibly all, scalar inferences are not delayed: Evidence for immediate pragmatic enrichment. *Cognition*. 116 (1) 42-55.
- Silverman, L. Campana, E.M., Bennetto, L. & Tanenhaus, M.K. (2010). Speech and gesture in High Functioning Autism. *Cognition*, 115 (3) 380-393.
- Cook, S.W. & Tanenhaus, M.K. (2009). Embodied communication: Speakers' gestures affect listeners' actions, *Cognition*, 113, 98-104.
- Kaiser, E., Runner, J.T., Sussman, R.S. & Tanenhaus, M.K. (2009). Structural and semantic constraints on the resolution of pronouns and reflexives. *Cognition*. 112, 55-80.
- 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.M. (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, M.K. & 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.
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- Swift, M.D., Campana, E., Allen, J.F. & Tanenhaus, M.K. (2002). Incremental referential domain circumscription during processing of natural and synthesized speech. *Proceedings of the 2002 Meetings of the Cognitive Science Society*.
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- Tanenhaus, M.K. & Carlson, G.N. (1986). Processing verb phrase anaphors. *Proceedings of the Eighth Annual Cognitive Science Society Meetings*, 90-94. Mahwah, NJ: Lawrence Erlbaum Associates.
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- Seidenberg, M.S. & Tanenhaus, M.K. (1977). Psychological constraints on grammars: On trying to put the real back in "psychological reality." *Papers from the Thirteenth Meeting of the Chicago Linguistic Society*, 180-193. Chicago: Chicago Linguistic Society.
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### **Encyclopedia Essays, Commentaries and Reviews (11)**

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- Farmer, T. A., Brown, M., & Tanenhaus, M. K. (2013). Prediction, explanation, and the role of generative models in language processing. *Behavioral and Brain Sciences*, 36, 211–212.
- Brown-Schmidt, S.B. & Tanenhaus, M.K. (2004). Priming and alignment: Mechanism or consequence? *Brain and Behavioral Sciences*.
- Tanenhaus, M.K. (2003). Language comprehension. In W. Frawley (ed.) *Oxford International encyclopedia of linguistics*. Oxford: Oxford University Press.

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- Tanenhaus, M.K. (1991). Language comprehension. In W. Bright (Ed.), *Oxford International encyclopedia of linguistics*. Oxford: Oxford University Press.
- Tanenhaus, M.K. (1981). In honor of Eric Lenneberg, Review of psychology and biology of language and thought. G. A. Miller & E. Lenneberg (Eds.). *Contemporary Psychology*, **26**, 252-253.

## **INVITED COLLOQUIA AND PRESENTATIONS (1986 to present)**

### **2016**

Keynote Speaker: The language sciences, past present and future: Conference celebrating 50<sup>th</sup> anniversary of Department of Linguistics at Northwestern University, September, 2016

Chair Inauguration Lecture, Nanjing Normal University, China, May 2016

Explanation and generalization in high-level language processing, Nanjing Normal University, China

### **2015**

Keynote Speaker: Clinical Aphasiology Conference (CAC), Monterey CA, May, 2015

Invited Speaker, Workshop on Methodological Issues in Experimental Pragmatics, Berlin, June, 2015

Invited Speaker, Experimental Pragmatics, Chicago, July, 2015 (had to withdraw because of illness)

### **2014**

Distinguished Speaker in Cognitive Science Lecture, Michigan State University, October 26-28

Keynote Speaker Generation of referring expressions, Edinburgh, Scotland,

Keynote Speaker ESLP (Embodied and Situated Language Processing), Rotterdam, Netherlands, August 19-22, 2014.

Nanjing Normal University, Nanjing, China, two lectures, May 25-30, 2014

University of Pennsylvania, Cognitive Science Colloquium, April 6, 2014.

Swarthmore College, Lecture, April 5, 2014

UCLA, Department of Linguistics colloquium, February 15, 2014.

USC, Department of Linguistics colloquium, February, 24 2014.

### **2013**

Stanford University, Language and Cognition Forum (colloquium series), September 2013

University of Wisconsin at Madison, two Brown bag talks, March 2013

University of Maryland, (Mayfest, Expectations in language processing), May 2013

University of Massachusetts at Amherst (Workshop on Implicit and Explicit Prosody), May 2013

### **2012**

University of Iowa, Brown Bag

**2011:**

Interactional Foundations of Language: Invited talk at workshop organized by N. Enfield and S. Levinson, July, Boulder, Colorado

SIGDIAL11 (conference of special interest group on computational models of dialogue): Invited talk, June, Portland

**2010:**

Leverhulme Workshop on Context and Communication. September, Barcelona, Spain.

Basque Center for Brain and Language (BCBL). San Sebastian, Spain.

San Sebastian-Donostia. Understanding Language: Forty Years Down The Garden Path. (course held in honor of Thomas Bever). June, San Sebastian, Spain. Two lectures.

New York University, CUNY Sentence Processing Conference, March 2010.

Brock University, Colloquium, Department of Applied Linguistics Speaker Series, March, 2010

University of Pennsylvania, Brown Bag, Institute for Research in Cognitive Science, February 2010.

**2009:**

MIT, Department of Linguistics and Philosophy, Brown bag talk and Linguistics Colloquium speaker, December, 2009.

Boston University Child Language Development Conference (BUCLD), Invited speaker, November, 2009.

University of Iowa, Developmental Sciences seminar presentation and joint colloquium, Department of Psychology and Department of Communication Sciences and Disorders, September, 2009.

**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 Planck 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  
Istituto 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 Sciences and Disorders, 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 Cognitive Science, University of California, Merced

Julie Sedivy, 1997, Department Psychology, University of Calgary

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, Department of Psychology, University of Illinois at Urbana-Champaign.

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

Sarah C. Creel, 2006, Department of Cognitive Sciences, UCSD.

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

Kathleen Pirog Revill, 2007, FERN Facilities Manager/Sr. Research Scientist, Emory University.

Meghan A. Clayards, 2008, Linguistics and Communication Sciences and Disorders, and Center for Language, Mind and Brain, McGill University.

Kathleen Carbary, 2011, Columbia Basin College, Washington.

Christina S. Kim, 2012, Department of Linguistics, Kent University, UK.

Kristen Skovbroten Gorman, 2012, Center for Research in Learning and Instruction, University of Minnesota.

Judith Degen, 2013, Post-doctoral Fellow, Stanford University.

Whitney Gegg-Harrison, 2014, Faculty member, Program in Writing and Argument, University of Rochester.

Meredith Brown, 2014, Post-doctoral Fellow, Tufts University and MGH, Boston

Jennifer Merickel, 2015, Post-doctoral Fellow, Department of Neurology, University of Nebraska at Omaha.

Sarah Bibyk, 2016, Postdoctoral Fellow, Vanderbilt University.

### **Post-doctoral Students in Academia**

#### ***Wayne State University***

Karen Zabrocky, Department of Psychology, University of Georgia

### ***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  
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### **Ph.D. students not in academia**

#### ***Wayne State University***

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