

MATTHEW W. CROCKER

LIST OF PUBLICATIONS

Books and Edited Volumes:

1. Matthew Crocker and Joerg Siekmann (eds). *Resource Adaptive Cognitive Processes*. Cognitive Technologies Series. Springer Verlag, Berlin. (in press).
2. Pia Knoeferle, Matthew Crocker and Friedemann Pulvermuller (eds). Special Issue on: Embodied language processing: neuroimaging, behavioural, and neurocomputational perspectives. *Brain and Language*. Sept 2009.
3. Frank Keller, Steven Clark, Matthew Crocker and Mark Steedman (eds). *Proceedings of the ACL Workshop Incremental Parsing: Bringing Engineering and Cognition Together*, Barcelona, Spain, July, 2004.
4. Matthew Crocker, Martin Pickering and Charles Clifton, Jr. (eds). *Architectures and Mechanisms for Language Processing*, Cambridge University Press, Cambridge, UK, January 2000.
5. Matthew Crocker. *Computational Psycholinguistics: An Interdisciplinary Approach to the Study of Language*, Kluwer Academic Publishers (now Springer), Dordrecht, January 1996.

Journal Articles and Peer-Reviewed Book Chapters:

1. Matthew Crocker. Sentence comprehension: Linking computational models with experimental evidence. Invited contribution: *Language and Linguistic Compass*, (in preparation).
2. Andrea Weber and Matthew Crocker. Evidence for a graded effect of semantic constraints on lexical competition. *Cognition*, (submitted).
3. Matthew Crocker. Computational Psycholinguistics. To appear in: Lappin, Clark and Fox (eds) *The Handbook of Computational Linguistics and Natural Language Processing*, Blackwell, UK. (to appear).
4. Matthew Crocker, Pia Knoeferle and Marshall Mayberry. Situated Sentence Comprehension: The coordinated interplay account and a neurobehavioral model. *Brain and Language*, (in press).
5. Pia Knoeferle and Matthew Crocker. Constituent order and semantic parallelism in online comprehension: eye-tracking evidence from German. *Quarterly Journal of Experimental Psychology*, (in press).
6. Andrea Weber, Matthew Crocker and Pia Knoeferle. Conflicting constraints in resource adaptive language comprehension. In: Crocker & Siekmann (eds), *Resource Adaptive Cognitive Processes*, Springer Verlag, Berlin, (in press).
7. Marshall Mayberry and Matthew Crocker. The evolution of a connectionist model of situated language understanding. In: Crocker & Siekmann (eds), *Resource Adaptive Cognitive Processes*, Springer Verlag, Berlin, (in press).
8. Ulrike Pado, Matthew Crocker and Frank Keller. A Probabilistic Model of Semantic Plausibility in Sentence Processing. *Cognitive Science*, (in press).
9. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. Learning to Attend: A Connectionist Model of Situated Language Comprehension. *Cognitive Science*, **33**(1):449-496, 2009.
10. Pia Knoeferle and Matthew Crocker. The coordinated processing of scene and utterance: evidence from eye tracking in depicted events. In: Srinivasan, Gupta & Pandey (eds), *Advances in Cognitive Science*, Sage, 2008.
11. Igor Farkas and Matthew Crocker. Syntactic systematicity in sentence processing with a recurrent self-organizing network. *Neurocomputing*. **71**(7-9):1172-1179, 2008.
12. Pia Knoeferle, Boukje Habets, Matthew Crocker and Thomas Münte. Visual scenes trigger immediate syntactic reanalysis: evidence from ERPs during situated spoken comprehension. *Cerebral Cortex*, **18**(4):789-795, 2008.
13. Pia Knoeferle and Matthew Crocker. The influence of recent scene events on spoken comprehension: evidence from eye-movements. *Journal of Memory and Language (SI: Language-Vision Interaction)*; **57**(2):519-543, 2007.
14. Matthew Crocker and Frank Keller. Probabilistic Grammars as Models of Gradience in Language Processing. In: Gisbert Fanselow, Caroline Féry, Ralph Vogel, and Matthias Schlesewsky (eds), *Gradience in Grammar: Generative Perspectives*. Oxford: Oxford University Press, (2006).

15. Andrea Weber, Bettina Braun and Matthew Crocker. Finding Referents in Time: Eye-tracking Evidence for the Role of Contrastive Accents. *Language and Speech*. **49**(3):367-392, 2006.
16. Pia Knoeferle and Matthew Crocker. The coordinated interplay of scene, utterance, and world knowledge: evidence from eye tracking. *Cognitive Science*; **30**(3):481-529, 2006.
17. Andrea Weber, Martine Grice and Matthew Crocker. The role of prosody in the interpretation of structural ambiguities: a study of anticipatory eye movements. *Cognition*; **99**(2):B63-B72, 2006.
18. Matthew Crocker. Rational models of comprehension: addressing the performance paradox. In: A. Culter (ed), *Twenty-First Century Psycholinguistics: Four Cornerstones*, Lawrence Erlbaum Associates, Hillsdale, NJ, 2005.
19. Pia Knoeferle, Matthew Crocker, Martin Pickering, and Christoph Scheepers. The influence of the immediate visual context on incremental thematic role-assignment: evidence from eye-movements in depicted events. *Cognition*; **95**(1):95-127, 2005.
20. Matthew Crocker and Steffan Corley. Modular Architectures and Statistical Mechanisms: The Case from Lexical Category Disambiguation. In: Merlo & Stevenson (eds), *The Lexical Basis of Sentence Processing*, John Benjamins, Amsterdam, 2002.
21. Patrick Sturt, Martin Pickering, Christoph Scheepers, and Matthew Crocker. The Preservation of Structure in Language Comprehension: Is Reanalysis the Last Resort? *Journal of Memory and Language*; **45**(2):283-307, 2001.
22. Steffan Corley, Martin Corley, Frank Keller, Matthew Crocker, and Shari Trewin. Finding Syntactic Structure in Unparsed Corpora: The GSEARCH Corpus Query System. *Computers and the Humanities*; **35**:81-94, 2001.
23. Matthew Crocker and Thorsten Brants. Wide Coverage Probabilistic Sentence Processing. *Journal of Psycholinguistic Research*; **29**(6):647-669, 2000.
24. Martin Pickering, Matthew Traxler, and Matthew Crocker. Ambiguity Resolution in Sentence Processing: Evidence Against Likelihood. *Journal of Memory and Language*; **43**(3):447-475, 2000.
25. Patrick Sturt, Martin Pickering, and Matthew Crocker. Search Strategies in Syntactic Reanalysis. *Journal of Psycholinguistic Research*; **29**(2):183-194, 2000.
26. Steffan Corley and Matthew Crocker. The Modular Statistical Hypothesis: Exploring Lexical Category Ambiguity. In: Crocker, Pickering & Clifton (eds), *Architectures and Mechanisms for Language Processing*, Cambridge University Press, Cambridge, UK, 2000.
27. Matthew Crocker. Mechanisms for Sentence Processing. In: Garrod & Pickering (eds), *Language Processing*, Psychology Press, London, UK, 1999.
28. Martin Pickering, Charles Clifton, Jr., and Matthew Crocker. Introduction. In: Crocker, Pickering & Clifton (eds), *Architectures and Mechanisms for Language Processing*, Cambridge University Press, Cambridge, UK, 1999.
29. Masato Ishizaki, Matthew Crocker and Chris Mellish. Exploring Mixed-Initiative Dialogue Using Computer Dialogue Simulation. *Journal of User-Modeling and User-Adapted Interaction*; **9**(1/2):79-91, 1999.
30. Patrick Sturt, Martin Pickering, and Matthew Crocker. Structural Change and Reanalysis Difficulty in Language Comprehension. *Journal of Memory and Language*; **40**(1):136-150, 1999.
31. Nicholas Chater, Matthew Crocker, and Martin Pickering. The Rational Analysis of Inquiry: The Case for Parsing. In: Chater & Oaksford (eds), *Rational Models of Cognition*, pp. 441-468, Oxford University Press, Oxford, 1998.
32. Patrick Sturt and Matthew Crocker. Generalized Monotonicity for Reanalysis Models. In: Fodor & Ferreira (eds), *Reanalysis in Sentence Processing*, pp. 365-400, Kluwer Academic Publishers, Dordrecht, 1998.
33. Matthew Crocker. Principle-Based Parsing and Logic Programming. *Informatica*; **21**:263-277, 1997.
34. Patrick Sturt and Matthew Crocker. Thematic Monotonicity. *Journal of Psycholinguistic Research*; **26**(3):297-322, 1997.
35. Andrew Fordham and Matthew Crocker. A Stochastic Government-Binding Parser. In: Jones & Somers (eds): *New Methods in Language Processing*, pp. 318-330, UCL Press, London, 1997.
36. Patrick Sturt and Matthew Crocker. Monotonic Syntactic Processing: A Cross-Linguistic Study of Attachment. *Language and Cognitive Processes*; **11**(5):449-494, 1996.
37. Patrick Sturt and Matthew Crocker. Incrementality and Monotonicity in Syntactic Parsing. In: D. Milward and P. Sturt (eds), *Incremental Interpretation*, pp. 23-66, Edinburgh Working Papers in Cognitive Science, University of Edinburgh, 1995.

38. Matthew Crocker. On the Nature of the Principle-Based Sentence Processor. In: Clifton, Frazier & Rayner (eds), *Perspectives on Sentence Processing*, pp. 245-266, Lawrence Erlbaum Associates, Hillsdale, NJ, 1994.
39. Matthew Crocker. Multiple Meta-Interpreters in a Logical Model of Sentence Processing. In: Koch & Brown (eds.) *Natural Language Understanding and Logic Programming III*; Elsevier, Amsterdam, 1991. [Also appeared as DAI/RP #508, Edinburgh]
40. Matthew Crocker. A Principle-Based System for Syntactic Analysis. *The Canadian Journal of Linguistics*; **36**(1):1-26, 1991.

Papers in Peer-Reviewed Conference Proceedings:

1. Maria Staudte and Matthew Crocker. The effect of robot gaze on processing robot utterances. To appear in: *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, Amsterdam, The Netherlands, July 2009.
2. Maria Staudte and Matthew Crocker. Visual attention in spoken human-robot interaction. In: *Proceedings of the 4th ACM/IEEE conference on Human-Robot Interaction*, San Diego, March 2009.
3. Emilia Ellsiepen, Pia Knoeferle and Matthew Crocker. Incremental syntactic disambiguation using depicted events: Plausibility, co-presence and dynamic presentation. In: *Proceedings of the 30th Annual Conference of the Cognitive Science Society*, Washington, D.C., July 2008.
4. Maria Staudte and Matthew Crocker. The role of gaze in spoken human-robot interaction. In: *Proceedings of the HRI Workshop on Metrics for Human-Robot Interaction*, Amsterdam, March 2008.
5. Jens Apel, Pia Knoeferle and Matthew Crocker. Processing Parallel Structure: Evidence from Eye-Tracking and a Computational Model. In: *Proceedings of the Second European Cognitive Science Society Conference*, Delphi, Greece, May 2007.
6. Igor Farkas and Matthew Crocker. Systematicity in sentence processing with a recursive self-organizing neural network. In: *Proceedings of European Symposium on Artificial Neural Networks*, Bruges, Belgium, April 2007.
7. Ulrike Pado, Frank Keller and Matthew Crocker. Combining syntax and thematic fit in a probabilistic model of sentence processing. In: *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, Vancouver, Canada, July 2006.
8. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. A Connectionist Model of the Coordinated Interplay of Scene, Utterance, and World Knowledge. In: *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, Vancouver, Canada, July 2006.
9. Igor Farkas and Matthew Crocker. Recurrent networks and natural language: exploiting self-organization. In: *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, Vancouver, Canada, July 2006.
10. Pia Knoeferle and Matthew Crocker. Accessibility of depicted events influences their priority in spoken comprehension. In: *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, Vancouver, Canada, July 2006.
11. Ulrike Pado, Matthew Crocker and Frank Keller. Modelling semantic role plausibility in human sentence processing. In: *Proceedings of the 11th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Trento, Italy, April 2006.
12. Pia Knoeferle, Eric Auer and Matthew Crocker. Scene-sentence congruence and structural ambiguity resolution: Eye-tracking reading. In: *Proceedings of the Alfred Yarbus Workshop on Eye Movements, Communication and Cognition*. St. Petersburg, Russia. June 2006.
13. Marshall R. Mayberry, Matthew W. Crocker and Pia Knoeferle, A Connectionist Model of Anticipation in Visual Worlds, *Lecture Notes in Computer Science (Proceedings of IJCNLP)*, Volume 3651, Pages 849 - 861, October 2005.
14. Bettina Braun, Andrea Weber and Matthew Crocker. Does Narrow Focus Activate Alternative Referents? In: *Proceedings of Interspeech 2005*, Lisbon, Portugal, September, 2005.
15. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. A Connectionist Model of Sentence Comprehension in Visual Worlds. In: *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, Stresa, Italy, July 2005.

16. Pia Knoeferle and Matthew Crocker. Incremental Effects of Mismatch during Picture-Sentence Integration: Evidence from Eye-tracking. In: *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, Stresa, Italy, July 2005.
17. Pia Knoeferle and Matthew Crocker. The coordinated processing of scene and utterance: evidence from eye-tracking in depicted events In: *Proceedings of International Conference on Cognitive Science*, Allahabad, India, December 2004.
18. Pia Knoeferle and Matthew Crocker. Stored knowledge versus depicted events: what guides auditory sentence comprehension? In: *Proceedings of the 26th Annual Conference of the Cognitive Science Society*, Chicago, USA, August 2004.
19. Kerstin Hadelich, Holly Branigan, Martin Pickering & Matthew Crocker. Alignment in Dialogue: Effects of Visual versus Verbal-feedback. In: *Proceedings of the 8th Workshop on the Semantics and Pragmatics of Dialogue (Catalog'04)*, Barcelona, Spain. July, 2004,
20. Marshall Mayberry and Matthew Crocker. Generating Semantic Graphs through Self-Organization. In: *Proceedings of the AAAI Symposium on Compositional Connectionism in Cognitive Science*, Washington D.C, October 2004.
21. Pia Knoeferle, M. Crocker, C. Scheepers, and M. Pickering, Using Depicted Role-Relations for Rapid Disambiguation and Reinterpretation in Online Sentence Comprehension. In: *Proceedings of the Conference of the European Society for Cognitive Psychology (ES COP)*, Granada, Spain, September 2003.
22. Pia Knoeferle, M. Crocker, C. Scheepers, and M. Pickering, Actions and Roles: Using depicted events for disambiguation and reinterpretation in German and English. In: *Proceedings of the 25th Annual Conference of the Cognitive Science Society*, Boston, USA, July 2003.
23. Thorsten Brants and Matthew Crocker. Probabilistic Parsing and Psychological Plausibility. In: *Proceedings of 18th International Conference on Computational Linguistics (COLING-2000)*; pp. 111-117, Saarbrücken, Germany, August 2000.
24. Frank Keller, Martin Corley, Steffan Corley, Matthew Crocker, and Shari Trewin. GSEARCH: A Tool for the Syntactic Investigation of Unparsed Corpora. *Proceedings of: The EACL Workshop on Linguistically Interpreted Corpora*; Bergen, Norway, June 1999.
25. Paola Merlo, Matthew Crocker, and Cathy Berthouzoz. Attaching Multiple Prepositional Phrases: Generalized Backed-Off Estimation. In: *Proceedings of the 2nd Conference on Empirical Methods in Natural Language Processing*; Providence, RI, June 1997.
26. Siamak Rezaei and Matthew Crocker. A Dynamic Representation of Grammatical Relations. In Butt and King (eds): *Proceedings of the LFG'97 Conference*; San Diego, CA, April 1997.
27. Steffan Corley and Matthew Crocker. Evidence for a Tagging Model of Human Lexical Category Disambiguation. In: *Proceedings of the 18th Annual Cognitive Science Society Conference*; San Diego, CA, June 1996.
28. Siamak Rezaei and Matthew Crocker. A Distributed Architecture for Parsing Persian. In *Proceedings of CSICC*, Sharif Univ. of Technology, Tehran, December 1995.
29. Andrew Fordham and Matthew Crocker. A Stochastic Government-Binding Parser. In: *Proceedings of the International Conference on New Methods in Language Processing*; Manchester, UK, September 1994.
30. Andrew Fordham and Matthew Crocker. Parsing with Principles and Probabilities. In: *The Balancing Act: Proceedings of ACL Workshop on Combining Symbolic and Statistical Approaches to Language*; Las Cruces, NM, July 1994.
31. Siamak Rezaei and Matthew Crocker. Parsing a Free Word Order Language: Persian. In: *Proceedings of the 4th International Conference in Multilingual Computing*; London, UK, April 1994.
32. Matthew Crocker. Properties of the Principle-Based Sentence Processor. In: *Proceedings of the 15th Annual Cognitive Science Society Conference*; Boulder, CO, June 1993.
33. Matthew Crocker and Ian Lewin. Parsing as Deduction: Rules versus Principles. In: *Proceedings of The 10th European Conference on Artificial Intelligence*; Vienna, August 1992.
34. Matthew Crocker. Multiple Interpreters in a Principle-Based Model of Sentence Processing. In: *Proceedings of The 5th Conference of the European ACL*; Berlin, April 1991.
35. Harvey Abramson, Matthew Crocker, Brian Ross and Douglas Westcott. A Fifth Generation Translator Writing System: Towards and Expert System for Compiler Development. In: *PLILP'88*; INRIA, Orleans, France, 1988.

36. Pierre Trescases and Matthew Crocker. Linguistic Contributions to Text-to-Speech Computer Programs for French. In: *COLING '88*; pp. 671-676, Budapest, August 1988.

Keynote Lectures and Invited Conference Presentations:

1. Matthew Crocker. Visually Situated Comprehension: The Coordinated Interplay Account and a Neurobehavioural Model. *Workshop on Dynamical Systems in Language*, Reading, UK, September 2008.
2. Matthew Crocker and Pia Knoeferle. Kinds of Parallelism: Evidence from Coordinate Clauses in German. *Festschrift for Charles Clifton Jr.*, Edinburgh, UK, May 2008.
3. Matthew Crocker. Modeling semantic plausibility and the influence of visual context during on-line sentence comprehension. Invited Speaker: *Interdisciplinary Workshop on Machine Learning and Cognitive Science of Language Acquisition*, London, UK, June 2007.
4. Matthew Crocker. The coordinated interplay of visual attention and utterance comprehension. Keynote speaker: *The Scandinavian Workshop on Applied Eye-Tracking*, Lund, Sweden, February 2007.
5. Matthew Crocker. The coordinated interplay of scene and utterance in real-time comprehension. Keynote speaker: *Proceedings of the 5th International Forum on Language, Brain, and Cognition: Natural Language in Computer and Brain Sciences*. Tohoku, Japan, November 2005.
6. Matthew Crocker. Interpreting eye-movements in visual scenes: evidence from conflicting processes during spoken comprehension. Invited speaker: *The European Conference on Eye Movements (ECEM13)*, Bern, Switzerland, August 2005.
7. Matthew Crocker. Computational Psycholinguistics. Keynote speaker: *APICS-2003 Mathematics, Statistics and Computer Science Conference*. Charlottetown, PEI, Canada, October 2003.
8. Matthew Crocker. Rational Mechanisms and Adaptive Architectures. Invited speaker: *Workshop on Architectures of Sentence and Discourse Comprehension*, Berg en Dal, The Netherlands, August 2003.
9. Matthew Crocker. Optimal Models of Comprehension: Garden Path versus Garden Variety Language. Invited speaker: *The Four Corners Workshop on The relationship between model and experiment*. Max Planck Institute for Psycholinguistics, Nijmegen, NL, Feb, 2003.
10. Matthew Crocker. Parsing as Prediction: Evidence from SVO and OVS constructions in German. Keynote speaker: *Proceedings of the 6th Konferenz zur Verarbeitung natürlicher Sprache (KONVENS 2002)*, pp. 3-6, Saarbrücken, Germany, September 2002.
11. Matthew Crocker. Expectations in incremental language comprehension: The role of context and experience. Keynote speaker: *The European Society of Philosophy and Psychology (ESPP-2002)*, Lyon, France, July 2002.
12. Matthew Crocker. Statistical Mechanisms for Language Processing. Keynote speaker: *The 4th Conference on Architectures and Mechanisms for Language Processing (AMLaP-98)*; Freiburg, Germany, September 1998.

Conference Presentations:

1. Matthew Crocker, Marshall Mayberry and Pia Knoeferle. Indexing neural correlates in a connectionist model of situated comprehension. Paper to be presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
2. Maria Staudte and Matthew Crocker. Gaze Grounds Meaning in Situated Human-Robot Interaction. Poster to be presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
3. Matthew Crocker, Marshall Mayberry and Pia Knoeferle. A neurobehavioral model of situated language comprehension. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Davis, CA, March, 2009.
4. Maria Staudte and Matthew Crocker. The utility of gaze in spoken human-robot interaction. Presented at: *Scandinavian Workshop on Applied Eye-Tracking*, April 2008.
5. Emilia Ellsiepen, Matthew Crocker and Pia Knoeferle. Prior scene events influence on-line syntactic disambiguation. Poster presented at: *Scandinavian Workshop on Applied Eye-Tracking*, April 2008.

6. Emilia Ellsiepen, Pia Knoeferle and Matthew Crocker. The influence of plausible scene events during incremental syntactic disambiguation. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Chapel Hill, NC, March, 2008.
7. Marshall Mayberry and Matthew Crocker. A Model of Attention in the Interaction of Language and Scene. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Chapel Hill, NC, March, 2008.
8. Juliane Steinberg and Matthew Crocker. The influence of speech-contingent eye movements on word comprehension. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Chapel Hill, NC, March, 2008.
9. Matthew Crocker, Marshall Mayberry & Pia Knoeferle. Language, scene & attention: Towards a computational theory of situated comprehension. Paper presented at: *The 1st Workshop on Embodied Sentence Processing*; Saarbrücken, Germany, August 2007.
10. Marshall Mayberry and Matthew Crocker. An Attentional Model of Situated Language Understanding. Paper presented at: *AMLaP-2007*, Turku, Finland, August 2007.
11. Juliane Steinberg and Matthew Crocker. Noun-contingent Eye Movements in Visual Worlds During a Lexical Decision Task. Poster presented at: *AMLaP-2007*, Turku, Finland, August 2007.
12. Pia Knoeferle and Matthew Crocker. Eye tracking parallelism in coordinate constructions. Paper presented at The European Conference on Eye Movements, Berlin, August 2007.
13. Matthew Crocker (Coordinator). Situated Spoken Language Processing and Visual Attention. Symposium at: *The 8th Annual Meeting of the German Society for Cognitive Science (Kogwis '07)*, Saarbrücken, Germany, March, 2007.
14. Pia Knoeferle and Matthew Crocker. Combined effects of semantic and syntactic parallelism: evidence from eye tracking. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; La Jolla, CA, 29-31 March, 2007.
15. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. Modelling Attention in the Coordinated Interplay of Language and Scene. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; La Jolla, CA, 29-31 March, 2007.
16. Ulrike Pado, Frank Keller and Matthew Crocker. Integrating Syntax and Semantic Plausibility into a Wide-Coverage Model of Human Sentence Processing. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; La Jolla, CA, 29-31 March, 2007.
17. Andrea Weber and Matthew Crocker. The influence of the scene on linguistic expectations: evidence from cross-model priming in visual worlds. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; La Jolla, CA, 29-31 March, 2007.
18. Pia Knoeferle and Matthew Crocker. Clause-level and constituent-level parallelism: eye-tracking coordinate structures in German. Paper presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.
19. Juliane Steinberg and Matthew Crocker. Evidence for reactivation of verb arguments in verb-final clauses: A visual worlds study in German. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.
20. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. A Connectionist Model of Situated Sentence Comprehension and Visual Attention. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.
21. Jens Apel, Pia Knoeferle and Matthew Crocker. Processing Parallel Structure: Evidence from Eye-Tracking and a Computational Model. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.
22. Garance Paris, Andrea Weber and Matthew Crocker. German Morphosyntactic Gender and Lexical Access. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.
23. Kerstin Hadelich and Matthew Crocker. Gaze alignment of interlocutors in conversational dialogues. Paper presented at: *Eye Tracking Research and Applications*. San Diego, CA, 27-29 March, 2006.
24. Andrea Weber and Matthew Crocker. Top-down anticipation versus bottom-up lexical access: which dominates eye-movements in visual scenes? Poster presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, 23-25 March, 2006.

25. Pia Knoeferle and Matthew Crocker. The mechanism(s) underlying parallelism: eye-tracking coordinate structures in German. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, 23-25 March, 2006.
26. Kerstin Hadelich and Matthew Crocker. Dialogue. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, 23-25 March, 2006.
27. Pia Knoeferle and Matthew Crocker. Effects of "blank screen" and disappearing events on the greater relative importance of depicted events. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, 23-25 March, 2006.
28. Pia Knoeferle and Matthew Crocker. The influence of the visual environment on spoken language comprehension: evidence from eye-tracking. Paper presented at: *International Congress on Spoken Communication*; Naples, Italy, 23-25 February, 2006.
29. Pia Knoeferle, Boukje Habets, Matthew Crocker and Thomas Münte. Early effects of depicted events on disambiguation of locally structurally ambiguous sentences. Poster presented at: *International Conference on Neuroscience (ICON 9)*, Havana, Cuba, September 2005.
30. Ulrike Pado, Frank Keller and Matthew Crocker. Predicting plausible roles for verb-argument pairs. Paper presented at: *AMLaP-2005*, Ghent, Belgium, September 2005.
31. Kerstin Hadelich, Matthew Crocker and Martin Pickering. On-line alignment in dialogue: evidence from the simultaneous eye-tracking of interlocutors. Poster presented at: *AMLaP-2005*, Ghent, Belgium, September 2005.
32. Pia Knoeferle and Matthew Crocker. Incremental picture-sentence integration: tracking eye-movements in scenes and sentences. Paper presented at: *The European Conference on Eye Movements (ECEM13)*, Bern, Switzerland, August 2005.
33. Marshall Mayberry, Matthew Crocker and Pia Knoeferle. A Connectionist Model of Language-Scene Interaction. In: *Proceedings of the ACL Workshop on Psycho-computational Models of Human Language Acquisition*, MI, 29-30 June, 2005.
34. Marshall Mayberry and Matthew Crocker. A model of anticipation and disambiguation in visual worlds. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, 31 March – 2 April, 2005.
35. Pia Knoeferle, Boukje Habets, Matthew Crocker and Thomas Münte. The influence of depicted events during spoken language comprehension: Evidence from ERPs. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, 31 March – 2 April, 2005.
36. Ulrike Pado, Matthew Crocker and Frank Keller. A modeling architecture for incorporating semantics into probabilistic models. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, 31 March – 2 April, 2005.
37. Pia Knoeferle, Shravan Vasishth, Matthew Crocker and Rick Lewis. Effects of NP-type, NP-similarity, and cleft-type in reading German sentences. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, 31 March – 2 April, 2005.
38. Matthew Crocker and Marshall Mayberry. On-line understanding in visual contexts: eye-tracking evidence and computational models. Paper presented at: *SFB Workshop on Information Structure in Language Processing and Language Acquisition*, Potsdam, Germany, October 2004.
39. Pia Knoeferle and Matthew Crocker. Beyond unrestricted interaction: the priority of depicted events over stored knowledge. Poster presented at: *AMLaP-2004*, Aix-en-Provence, France, September 2005.
40. Marshall Mayberry and Matthew Crocker. Anticipation and early disambiguation: A model of sentence comprehension in visual worlds. Poster presented at: *AMLaP-2004*, Aix-en-Provence, France, September 2005.
41. Kerstin Hadelich, Holly Branigan, Martin Pickering and Matthew Crocker. Alignment in dialogue: effects of feedback on lexical overlap within and between participants. Poster presented at: *AMLaP-2004*, Aix-en-Provence, France, September 2005.
42. Marshall Mayberry and Matthew Crocker. Incrementality, prediction, and attention in a scaleable network model of linguistic competence and performance. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; College Park, MD, March 2004.
43. Kerstin Hadelich, Holly Branigan, Martin Pickering and Matthew Crocker. Effects of visual and verbal Feedback on Alignment. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; College Park, MD, March 2004.

44. Andrea Weber, Bettina Braun, Matthew Crocker. Adjectival modifiers and reference resolution: when prosodic focus matters. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; College Park, MD, March 2004.
45. Pia Knoeferle and Matthew Crocker. When Linguistic Experience Competes with Scene Information in Sentence Comprehension. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; College Park, MD, March 2004.
46. Pia Knoeferle, Matthew Crocker and C. Scheepers. The influence of depicted event scenes on written comprehension of locally ambiguous sentences. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; College Park, MD, March 2004.
47. Pia Knoeferle, Matthew Crocker, Christoph Scheepers and Martin Pickering. The interaction of mental representations from linguistic and visual input: A processing account of role assignment in visual worlds. Paper presented at: *AMLaP-2003*, Glasgow, Scotland, August 2003.
48. Andrea Weber, Martine Grice, and Matthew Crocker. Effects of prosody on the resolution of word order ambiguities. Poster presented at: *AMLaP-2003*, Glasgow, Scotland, August 2003.
49. Pia Knoeferle, M. Crocker, C. Scheepers, and M. Pickering. Eye-movements on Images as a Measure of Disambiguation and Reinterpretation in Online Sentence Comprehension: a cross-linguistic comparison, Paper presented at: *European Conference on Eye Movements*, Dundee, UK, August 2003.
50. Christoph Scheepers, Sandra Muckel and Matthew Crocker. Anticipation of Particle Verb Meanings in Visual Worlds. Poster presented at: *European Conference on Eye Movements*, Dundee, UK, August 2003.
51. Kerstin Hadelich, Matthew Crocker, and Christoph Scheepers. Patients first: Visual versus syntactic priming in German. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Boston, MA, March 2003.
52. Pia Knoeferle, Matthew Crocker, Christoph Scheepers, Martin Pickering, and Patrick Sturt. Visual events, role (re-)assignments, and word-order ambiguity in German and English. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Boston, MA, March 2003.
53. Christoph Scheepers, Sandra Muckel, Matthew Crocker and Karin Müller. On-line interpretation of German particle verb constructions. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Boston, MA, March 2003.
54. Matthew Crocker. Adopting dispreferred interpretations: Eye-movement evidence from on-line comprehension of OVS and SVO constructions. Paper presented at: *Workshop on Gradedness*, Potsdam, Germany, October 2002.
55. Christoph Scheepers and Matthew Crocker. Constituent order priming from reading to listening. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.
56. Sandra Muckel, Christoph Scheepers, Matthew Crocker and Karin Müller. Anticipating German particle verb meanings: Effects of lexical frequency and plausibility. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.
57. Pia Knöferle, Matthew Crocker, Christoph Scheepers and Martin Pickering. Anticipatory eye movements in initially ambiguous sentences. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.
58. Kerstin Hadelich, Matthew Crocker, and Christoph Scheepers. Powerful pictures: Priming planning or production or both? Poster presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.
59. Yuki Kamide, Christoph Scheepers, Gerry Altmann and Matthew Crocker. Integration of syntactic and semantic information in predictive processing: Anticipatory eye-movements in German sentence processing. Presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, March 2002.
60. Patrick Sturt, Christoph Scheepers, Martin Pickering and Matthew Crocker. The interaction of structure preservation and recency in first- and second-pass ambiguity resolution. Poster presented at: *AMLaP-2000*; Leiden, The Netherlands, September 2000.
61. Matthew Crocker and Thorsten Brants. Wide Coverage Probabilistic Sentence Processing: Garden Variety versus the Garden Path. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; La Jolla, CA, April 2000.
62. Matthew Crocker and Thorsten Brants. Incremental Probabilistic Models of Human Linguistic Performance. Paper presented at: *AMLaP-99*; Edinburgh, UK, September 1999.

63. Matthew Crocker and Steffan Corley. Modular Architectures and Statistical Mechanisms: The Case from Lexical Category Disambiguation. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; New Brunswick, NJ, March 1998.
64. Patrick Sturt, Martin Pickering, and Matthew Crocker. Structural Change and Reanalysis Difficulty. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; New Brunswick, NJ, March 1998.
65. Patrick Sturt, Matthew Crocker, Martin Pickering, and Matthew Traxler. Sentence Type and Sentence Token in Reanalysis. Paper presented at: *Workshop on Reanalysis in Sentence Processing*; New Brunswick, NJ, March 1998.
66. Martin Pickering, Matthew Crocker, and Nicholas Chater. A Rational Analysis of Human Sentence Parsing: Adopting the Most Informative Analysis. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; Santa Monica, CA, March 1997.
67. Matthew Crocker and Martin Pickering. A Rational Analysis of Sentence Parsing. Paper presented at: *AMLaP-96*; University of Torino, Torino, Italy, September 1996.
68. Matthew Crocker and Martin Pickering. Towards the Adaptive Sentence Processor: The Informativity Model. Paper presented at: *The Workshop of Computational Models of Human Syntactic Processing*; Netherlands Institute for Advanced Study, Wassenaar, The Netherlands, June 1996
69. Martin Pickering and Matthew Crocker. A Rational Analysis of Parsing and Interpretation. Paper presented at: *Conference on Rational Models of Cognition*; University of Warwick, UK, July 1996.
70. Steffan Corley and Matthew Crocker. The Modular Statistical Hypothesis: Exploring Lexical Category Ambiguity. Paper presented at: *The 1st Conference on Architectures and Mechanisms for Language Processing (AMLaP-95)*; Edinburgh, UK, December 1995.
71. Matthew Crocker. Incremental Stochastic Parsing and Reanalysis. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, March 1995.
72. Patrick Sturt and Matthew Crocker. Monotonic Parsing and Reanalysis. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, March 1995.
73. Matthew Crocker. Incrementality and Modularity in a Principle-Based Model of Sentence Processing. Presented at: *The Workshop on GB-Parsing*; Geneva, June 1990. [HCRC/RP #10, Edinburgh].
74. Matthew Crocker. Principle-Based Sentence Processing: A Cross-Linguistic Account. A poster at: *The 3rd Annual CUNY Conference on Sentence Processing*; New York, March 1990.
75. Matthew Crocker. Principle-Based Sentence Processing: A Cross-Linguistic Account. A paper presented at: *The Meeting of the Linguistics Association of Great Britain*; Cambridge, UK, April 1990. [Appeared as HCRC/RP #1]

Invited Departmental/Seminar Talks:

- Cognitive Science Program, Simon Fraser University (April 2009)
- Max Planck Institute for Psycholinguistics, Nijmegen (April 2008)
- Dept. of Computer Science. Hamburg University (April 2007)
- Department of Literature and Linguistics, University of Bielefeld (October 2007)
- Dept. of Cognitive Science, John's Hopkins University (March, 2006)
- Cognitive Science Programme, Indiana University (January, 2006)
- Dept. of Psychology, Freiburg University (January 2005)
- Dept. of Linguistics, Marburg University (November 2004)
- Dept. of Linguistics, Göttingen University (June 2003)
- Dept. of Computational Linguistics, Stuttgart University (May 2003)
- Dept. of Linguistics, Leipzig University (Dec 2002)
- Dept. of Informatics, Saarland University (May 2000)
- Dept. of Computational Linguistics, Saarland University (June 1997)
- Dept. of Psychology, Freiburg University (June 1997)
- Centre for Cognitive Science (RuCCS), Rutgers University (April 1997)
- IRCS, University of Pennsylvania, three lectures (March 1997)
- Dept. of Linguistics, University of Geneva, (May 1993)
- Dept. of Linguistics, College Park, University of Maryland (March 1993)
- Workshop presentation, ESSLI-91, Saarbrücken (August 1991)
- Dept. of Linguistics, University of Geneva (April 1991)
- ITK, Tilburg University (April 1991)
- IAI (Eurotra-D), Saarbrücken (June 1989)