MATTHEW W. CROCKER
LIST OF PUBLICATIONS

Books and Edited Volumes:

1. Pia Knoeferle, Pirita Pyykkönen and Matthew W. Crocker (eds). *Visually Situated Language Comprehension*. John Benjamins, 2016.
2. Matthew W. Crocker and Joerg Siekmann (eds). *Resource-Adaptive Cognitive Processes*. Cognitive Technologies Series. Springer Verlag, Berlin, February, 2010.
3. Pia Knoeferle, Matthew W. Crocker and Friedemann Pulvermüller (eds). Special Issue on: Embodied language processing: neuroimaging, behavioural, and neurocomputational perspectives. *Brain and Language*, **112**(3), 2010.
4. Frank Keller, Steven Clark, Matthew W. Crocker and Mark Steedman (eds). *Proceedings of the ACL Workshop Incremental Parsing: Bringing Engineering and Cognition Together*, Barcelona, Spain, July, 2004.
5. Matthew W. Crocker, Martin Pickering and Charles Clifton, Jr. (eds). *Architectures and Mechanisms for Language Processing*, Cambridge University Press, Cambridge, UK, January 2000.
6. Matthew W. Crocker. *Computational Psycholinguistics: An Interdisciplinary Approach to the Study of Language*, Kluwer Academic Publishers (now Springer), Dordrecht, January 1996.

Journal Articles:

1. Noortje Venhuizen, Matthew W. Crocker Harm Brouwer. Expectation-based Comprehension: Modeling the interaction of world knowledge and linguistic experience. *Discourse Processes*, 2018. https://doi.org/10.1080/0163853X.2018.1448677
2. Francesca Delogu, Heiner Drenhaus and Matthew W. Crocker. On the predictability of event-boundaries in discourse: An ERP investigation. *Memory & Cognition*, **46**:315-325, 2018.
3. Harm Brouwer and Matthew W. Crocker. On the Proper Treatment of the N400 and P600 in Language Comprehension. *Frontiers in Psychology*, **8**:1327, 2017.
4. Harm Brouwer, Matthew W. Crocker, Noortje Venhuizen, and John Hoeks. A Neurocomputational Model of the N400 and the P600 in Language Processing. *Cognitive Science*, **41**:1318-1352, 2017.
5. Francesca Delogu, Heiner Drenhaus, Matthew W. Crocker. Teasing Apart Coercion and Surprisal: Evidence from ERPs and Eye-movements. *Cognition*, **161**:46-59, 2017.
6. Matthew W. Crocker, Vera Demberg and Elke Teich. Information Density and Linguistic Encoding (IDeaL). *Künstliche Intelligenz*, **30**:77-81, 2016.
7. Harm Brouwer and Matthew W. Crocker. On the Organization of the Perisylvian Cortex: Insights from the Electrophysiology of Language. Comment on "Towards a Computational Comparative Neuroprimatology: Framing the language-ready brain" by M.A. Arbib. *Physics of Life Reviews*, 16, pp. 58-60, 2016.
8. Konstantina Garoufi, Maria Staudte, Alexander Koller and Matthew W. Crocker. Exploiting listener gaze to improve situated communication in dynamic virtual environments. *Cognitive Science*, **40**:1671-1703, 2016.
9. Judith Köhne and Matthew W. Crocker. The interplay of cross-situational word learning and sentence-level constraints. *Cognitive Science*, **39**:849-889, 2015.
10. Maria Staudte, Matthew W. Crocker, Alexis Heloir and Michael Kipp. Speaker gaze affects listener's comprehension beyond visual cueing. *Cognition*, **133**:317-328,2014.
11. Afra Alishahi, Afsaneh Fazly, Judith Koehne and Matthew W. Crocker. Sentence-based attentional mechanisms in word learning: evidence from a computational model. *Frontiers in Psychology* **3**:200, 2012. doi: 10.3389/fpsyg.2012.00200
12. Andrea Weber and Matthew W. Crocker. On the nature of semantic constraints on lexical access. *Journal of Psycholinguistic Research*, **41**:195-214, 2012.
13. Jan Švantner, Igor Farkaš and Matthew W. Crocker. Modeling utterance-mediated visual attention during situated comprehension. *Neural Network World,* **22**(2):85-101, 2012.

14. Maria Staudte and Matthew W. Crocker. Investigating joint attention mechanisms through spoken human-robot interaction, *Cognition*, **120**:268-291, 2011.
15. Matthew W. Crocker, Pia Knoeferle and Marshall Mayberry. Situated Sentence Comprehension: The coordinated interplay account and a neurobehavioral model. *Brain and Language*, **112**(3):189-201, 2010.
16. Pia Knoeferle and Matthew W. Crocker. Constituent order and semantic parallelism in online comprehension: eye-tracking evidence from German. *Quarterly Journal of Experimental Psychology*, **62**(12):2338-2371, 2009.
17. Ulrike Pado, Matthew W. Crocker and Frank Keller. A Probabilistic Model of Semantic Plausibility in Sentence Processing. *Cognitive Science*, **33**(5):794-838, 2009.
18. Marshall Mayberry, Matthew W. Crocker and Pia Knoeferle. Learning to Attend: A Connectionist Model of Situated Language Comprehension. *Cognitive* Science, **33**(1):449-496, 2009.
19. Pia Knoeferle and Matthew W. 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.
20. Igor Farkas and Matthew W. Crocker. Syntactic systematicity in sentence processing with a recurrent self-organizing network. *Neurocomputing*. **71**(7-9):1172-1179, 2008.
21. Pia Knoeferle, Boukje Habets, Matthew W. Crocker and Thomas Münte. Visual scenes trigger immediate syntactic reanalysis: evidence from ERPs during situated spoken comprehension. *Cerebral Cortex*, **18**(4):789-795, 2008.
22. Pia Knoeferle and Matthew W. 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.
23. Andrea Weber, Bettina Braun and Matthew W. Crocker. Finding Referents in Time: Eye-tracking Evidence for the Role of Contrastive Accents. *Language and Speech*. **49**(3):367-392, 2006.
24. Pia Knoeferle and Matthew W. Crocker. The coordinated interplay of scene, utterance, and world knowledge: evidence from eye tracking. *Cognitive Science*; **30**(3):481-529, 2006.
25. Andrea Weber, Martine Grice and Matthew W. Crocker. The role of prosody in the interpretation of structural ambiguities: a study of anticipatory eye movements. *Cognition*; **99**(2):B63-B72, 2006.
26. Matthew W. 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.
27. Pia Knoeferle, Matthew W. 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.
28. Patrick Sturt, Martin Pickering, Christoph Scheepers, and Matthew W. Crocker. The Preservation of Structure in Language Comprehension: Is Reanalysis the Last Resort? *Journal of Memory and Language*; **45**(2):283-307, 2001.
29. Steffan Corley, Martin Corley, Frank Keller, Matthew W. Crocker, and Shari Trewin. Finding Syntactic Structure in Unparsed Corpora: The GSEARCH Corpus Query System. *Computers and the Humanities;* **35**:81-94, 2001.
30. Matthew W. Crocker and Thorsten Brants. Wide Coverage Probabilistic Sentence Processing. *Journal of Psycholinguistic Research*; **29**(6):647-669, 2000.
31. Martin Pickering, Matthew Traxler, and Matthew W. Crocker. Ambiguity Resolution in Sentence Processing: Evidence Against Likelihood. *Journal of Memory and Language*; **43**(3):447-475, 2000.
32. Patrick Sturt, Martin Pickering, and Matthew W. Crocker. Search Strategies in Syntactic Reanalysis. *Journal of Psycholinguistic Research;* **29**(2):183-194, 2000.
33. Masato Ishizaki, Matthew W. 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.
34. Patrick Sturt, Martin Pickering, and Matthew W. Crocker. Structural Change and Reanalysis Difficulty in Language Comprehension. *Journal of Memory and Language*; **40**(1):136-150, 1999.
35. Matthew W. Crocker. Principle-Based Parsing and Logic Programming. *Informatica*; **21**:263-277, 1997.
36. Patrick Sturt and Matthew W. Crocker. Thematic Monotonicity. *Journal of Psycholinguistic Research*; **26**(3):297-322, 1997.
37. Patrick Sturt and Matthew W. Crocker. Monotonic Syntactic Processing: A Cross-Linguistic Study of Attachment. *Language and Cognitive Processes*; **11**(5):449-494, 1996.

38. Matthew W. Crocker. A Principle-Based System for Syntactic Analysis. *The Canadian Journal of Linguistics*; **36**(1):1-26, 1991.

Peer-Reviewed Book Chapters:

1. Maria Staudte and Matthew W. Crocker. On the role of gaze for successful and efficient communication In: Geert Brône and Bert Oben (eds), *Eye-tracking in Interaction. Studies on the role of eye gaze in dialogue*, John Benjamins, 2018.
2. Harm Brouwer, Matthew W. Crocker and Noortje Venhuizen. Neural Semantics. In: Wieling, M., Kroon, M., Van Noord, G., and Bouma, G. (eds.), *From Semantics to Dialectometry: Festschrift for John Nerbonne*, pp. 75–83. College Publications, 2017.
3. Matthew W. Crocker. Computational Psycholinguistics. In: Lappin, Clark and Fox (eds) *The Handbook of Computational Linguistics and Natural Language Processing*, Blackwell, UK, July, 2010.
4. Andrea Weber, Matthew W. Crocker and Pia Knoeferle. Conflicting constraints in resource adaptive language comprehension. In: Crocker & Siekmann (eds), *Resource Adaptive Cognitive Processes*, pp. 119-142, Springer Verlag, Berlin, 2010.
5. Marshall Mayberry and Matthew W. Crocker. The evolution of a connectionist model of situated language understanding. In: Crocker & Siekmann (eds), *Resource Adaptive Cognitive Processes*, pp. 143-169, Springer Verlag, Berlin, 2010.
6. Matthew W. 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).
7. Matthew W. 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.
8. Steffan Corley and Matthew W. 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.
9. Matthew W. Crocker. Mechanisms for Sentence Processing. In: Garrod & Pickering (eds), *Language Processing*, Psychology Press, London, UK, 1999.
10. Martin Pickering, Charles Clifton, Jr., and Matthew W. Crocker. Introduction. In: Crocker, Pickering & Clifton (eds*), Architectures and Mechanisms for Language Processing*, Cambridge University Press, Cambridge, UK, 1999.
11. Nicholas Chater, Matthew W. 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.
12. Patrick Sturt and Matthew W. Crocker. Generalized Monotonicity for Reanalysis Models. In: Fodor & Ferreira (eds), *Reanalysis in Sentence Processing*, pp. 365-400, Kluwer Academic Publishers, Dordrecht, 1998.
13. Andrew Fordham and Matthew W. Crocker. A Stochastic Government-Binding Parser. In: Jones & Somers (eds): *New Methods in Language Processing*, pp. 318-330, UCL Press, London, 1997.
14. Patrick Sturt and Matthew W. 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.
15. Matthew W. 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.
16. Matthew W. 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]

Papers in Peer-Reviewed Conference Proceedings:

1. Chiara Gambi and Matthew W. Crocker. How do speakers coordinate planning and articulation? Evidence from gaze-speech lags. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*, London, UK, July, 2017.
2. Les Sikos, Clayton Greenberg, Heiner Drenhaus and Matthew W. Crocker. Information density of encodings: The role of syntactic variation in comprehension. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*, London, UK, July, 2017.
3. Elli Tourtouri, Francesca Delogu and Matthew W. Crocker. Specificity and entropy reduction in situated referential processing. In: *Proceedings of the 39th Annual Conference of the Cognitive Science Society*, London, UK, July, 2017.
4. Jesús Calvillo, Harm Brouwer and Matthew W. Crocker. Connectionist Semantic Systematicity in Language Production. In Trueswell et al (Eds.), In: *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society, August, 2016.
5. Yoav Binoun, Francesca Delogu, Clayton Greenberg, Mindaugas Mozuraitis and Matthew W. Crocker. Effects of Communicative Pressures on Novice L2 Learners' Use of Optional Formal Devices. In: *Proceedings of the NAACL Student Research Workshop*, San Diego, California: Association for Computational Linguistics, June, 2016.
6. Elli Tourtouri, Francesca Delogu and Matthew W. Crocker. ERP indices of situated reference in visual contexts. In Noelle et al (Eds.), In: *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (pp. 2422-2427). Austin, TX: Cognitive Science Society, July, 2015.
7. Jesús Calvillo and Matthew W. Crocker. A Rational Statistical Parser. In: *Proceedings of: The 11th International Workshop on Natural Language Processing and Cognitive Science.* Venice, Italy, October 27-29, 2014.
8. Alexander Koller, Konstantina Garoufi, Maria Staudte and Matthew W. Crocker. Enhancing referential success by tracking hearer gaze. In: *Proceedings of the 13th Annual SIGdial Meeting on Discourse and Dialogue*, Seoul, Korea, July 2012. (***Best Paper Award***)
9. Maria Staudte, Alexander Koller, Konstantina Garoufi and Matthew W. Crocker. Using listener gaze to augment speech generation in a virtual 3D environment. In: *Proceedings of the 34th Annual Conference of the Cognitive Science Society*, Sapporo, Japan, August 2012.
10. Maria Staudte, Alexis Heloir, Matthew W. Crocker and Michael Kipp. On the importance of gaze and speech alignment for efficient communication. In: *Proceedings of the Gesture Workshop (GW2011)*, Athens, Greece, May 2011.
11. Maria Staudte, Matthew W. Crocker, Alexis Heloir and Michael Kipp. Speaker gaze affects utterance comprehension beyond visual attention shifts. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Boston, Mass., July 2011.
12. Judith Köhne and Matthew W. Crocker. The Interplay of Multiple Mechanisms in Word Learning. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Boston, Mass., July 2011.
13. Jan Svantner, Igor Farkas and Matthew W. Crocker. Modeling Utterance-mediated Attention in Situated Language Comprehension. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Boston, Mass., July 2011.
14. Garance Paris and Matthew W. Crocker. Modeling the Effect of Lexico-Syntactic Gender on Spoken-Word Recognition. In: *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Boston, Mass., July 2011.
15. Maria Staudte and Matthew W. Crocker. When Robot Gaze Helps Human Listeners: Attentional versus Intentional Account. In: *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, Portland, Oregon, August 2010.
16. Judith Köhne and Matthew W. Crocker. Sentence Processing Mechanisms Influence Cross-Situational Word Learning. In: *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, Portland, Oregon, August 2010.
17. Maria Staudte and Matthew W. Crocker. The effect of robot gaze on processing robot utterances. In: *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, Amsterdam, The Netherlands, July 2009.

18. Maria Staudte and Matthew W. Crocker Producing and resolving multi-modal referring expressions in human-robot interaction. In: *Proceedings of Production of Referring Expressions (PRE-CogSci 2009),* Workshop at 31st Annual Conference of the Cognitive Science Society, Amsterdam, 29 July 2009.
19. Maria Staudte and Matthew W. Crocker. Visual attention in spoken human-robot interaction. In: *Proceedings of the 4th ACM/IEEE conference on Human-Robot Interaction*, San Diego, March 2009.
20. Emilia Ellsiepen, Pia Knoeferle and Matthew W. 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.
21. Maria Staudte and Matthew W. 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.
22. Jens Apel, Pia Knoeferle and Matthew W. 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.
23. Igor Farkas and Matthew W. 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.
24. Ulrike Pado, Frank Keller and Matthew W. 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.
25. Marshall Mayberry, Matthew W. 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.
26. Igor Farkas and Matthew W. 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.
27. Pia Knoeferle and Matthew W. 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.
28. Ulrike Pado, Matthew W. 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.
29. Pia Knoeferle, Eric Auer and Matthew W. 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.
30. 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.
31. Bettina Braun, Andrea Weber and Matthew W. Crocker. Does Narrow Focus Activate Alternative Referents? In: *Proceedings of Interspeech 2005*, Lisbon, Portugal, September, 2005.
32. Marshall Mayberry, Matthew W. 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.
33. Pia Knoeferle and Matthew W. 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.
34. Pia Knoeferle and Matthew W. 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.
35. Pia Knoeferle and Matthew W. 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.

36. Kerstin Hadelich, Holly Branigan, Martin Pickering & Matthew W. 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,
37. Marshall Mayberry and Matthew W. Crocker. Generating Semantic Graphs through Self-Organization. In: *Proceedings of the AAAI Symposium on Compositional Connectionism in Cognitive Science*, Washington D.C, October 2004.
38. 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 (ESCOP)*, Granada, Spain, September 2003.
39. 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.
40. Thorsten Brants and Matthew W. Crocker. Probabilistic Parsing and Psychological Plausibility. In: *Proceedings of 18th International Conference on Computational Linguistics (COLING-2000);* pp. 111-117, Saarbrücken, Germany, August 2000.
41. Frank Keller, Martin Corley, Steffan Corley, Matthew W. 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.
42. Paola Merlo, Matthew W. 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.
43. Siamak Rezaei and Matthew W. Crocker. A Dynamic Representation of Grammatical Relations. In Butt and King (eds): *Proceedings of the LFG'97 Conference*; San Diego, CA, April 1997.
44. Steffan Corley and Matthew W. 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.
45. Siamak Rezaei and Matthew W. Crocker. A Distributed Architecture for Parsing Persian. In *Proceedings of CSICC*, Sharif Univ. of Technology, Tehran, December 1995.
46. Andrew Fordham and Matthew W. Crocker. A Stochastic Government-Binding Parser. In: *Proceedings of the International Conference on New Methods in Language Processing*; Manchester, UK, September 1994.
47. Andrew Fordham and Matthew W. 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.
48. Siamak Rezaei and Matthew W. Crocker. Parsing a Free Word Order Language: Persian. In: *Proceedings of the 4th International Conference in Multilingual Computing*; London, UK, April 1994.
49. Matthew W. Crocker. Properties of the Principle-Based Sentence Processor. In*: Proceedings of the 15th Annual Cognitive Science Society Conference*; Boulder, CO, June 1993.
50. Matthew W. Crocker and Ian Lewin. Parsing as Deduction: Rules versus Principles. In*: Proceedings of The 10th European Conference on Artificial Intelligence*; Vienna, August 1992.
51. Matthew W. Crocker. Multiple Interpreters in a Principle-Based Model of Sentence Processing. In: *Proceedings of The 5th Conference of the European ACL*; Berlin, April 1991.
52. Harvey Abramson, Matthew W. 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.
53. Pierre Trescases and Matthew W. 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 W. Crocker. Probabilistic architectures and neurocomputational mechanisms for language processing. *Architectures and Mechanisms for Language Processing* (AMLaP), Berlin, September, 2018.
2. Matthew W. Crocker. Implications of surprisal for models of language. Deutsche Gesellschaft für Sprache, Saarbrücken, March, 2017.
3. Matthew W. Crocker. Taking surprisal seriously in models of language comprehension. *International Conference on Language and Perception*, Trondheim, Norway, June, 2016.
4. Matthew W. Crocker. Grounding spoken interaction with real-time gaze in dynamic virtual environments. Keynote lecture for the COLING Workshop: *Eye-tracking and Natural Language Processing*. Mumbai, India, December, 2012.
5. Matthew W. Crocker. The interplay of language and gaze in virtual environments. Lecture for University of Michigan's Winter Theme: *Language: The Human Quintessence*, Ann Arbor, Michigan, April, 2012.
6. Matthew W. Crocker. The influence of speaker gaze on situated comprehension: evidence from human-robot interaction. *The 3rd Workshop on Embodied and Situated Language Processing*, San Diego, California, September 2010.
7. Matthew W. Crocker. A Neurobehavioural Model of Situated Language Comprehension. *Psycholinguistics in Flanders (PIF 2009)*, Antwerp, Belgium, May 2009.
8. Matthew W. Crocker. Visually Situated Comprehension: The Coordinated Interplay Account and a Neurobehavioural Model. *Workshop on Dynamical Systems in Language*, Reading, UK, September 2008.
9. Matthew W. Crocker and Pia Knoeferle. Kinds of Parallelism: Evidence from Coordinate Clauses in German. *Festschrift for Charles Clifton Jr.*, Edinburgh, UK, May 2008.
10. Matthew W. 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.
11. Matthew W. Crocker. The coordinated interplay of visual attention and utterance comprehension. Keynote speaker: *The Scandinavian Workshop on Applied Eye-Tracking*, Lund, Sweden, February 2007.
12. Matthew W. 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.
13. Matthew W. 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.
14. Matthew W. Crocker. Computational Psycholinguistics. Keynote speaker: *APICS-2003 Mathematics, Statistics and Computer Science Conference*. Charlottetown, PEI, Canada, October 2003.
15. Matthew W. Crocker. Rational Mechanisms and Adaptive Architectures. Invited speaker: *Workshop on Architectures of Sentence and Discourse Comprehension*, Berg en Dal, The Netherlands, August 2003.
16. Matthew W. 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.
17. Matthew W. 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.
18. Matthew W. 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.
19. Matthew W. 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 (peer reviewed abstracts):

1. Elli Tourtouri, Francesca Delogu and Matthew W. Crocker. Over-specification and uniform reduction of visual entropy facilitate referential processing. Poster presented at the *7th biannual Experimental Pragmatics Conference (XPrag)*, Cologne, Germany, June 2017.
2. Les Sikos, Harm Brouwer and Matthew W. Crocker. Neural correlates of referential processing: Event-related potentials for ambiguity versus resolution. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society (CNS2017),* San Francisco, CA, USA, April 2017.
3. Torsten Jachmann, Heiner Drenhaus, Maria Staudte and Matthew W. Crocker. Influence of Speakers' Gaze on Listeners' Comprehension: Evidence from Event Related Potentials (ERP). Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society (CNS2017),* San Francisco, CA, USA, April 2017.
4. Alba Rodriguez, Yoana Vergilova, Matthew W. Crocker and Pia Knoeferle. Visual gender cue effects on incremental language comprehension. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society (CNS2017),* San Francisco, CA, USA, April 2017.
5. Les Sikos, Harm Brouwer and Matthew W. Crocker. Neural correlates of referential processing: Event-related potentials for ambiguity versus resolution. Poster presented at *The 30th Annual CUNY Conference on Human Sentence Processing*, Boston, Massachusetts, USA, March 2017.
6. Torsten Jachmann, Heiner Drenhaus, Maria Staudte and Matthew W. Crocker. Congruency effects of speaker's gaze on listeners' sentence comprehension. Poster presented at *The 30th Annual CUNY Conference on Human Sentence Processing*, Boston, Massachusetts, USA, March 2017.
7. Yoana Vergilova, Heiner Drenhaus, and Matthew W. Crocker. ERP time-course of (pseudo)word form activation and integration. Poster presented at *The 30th Annual CUNY Conference on Human Sentence Processing*, Boston, Massachusetts, USA, March 2017.
8. Harm Brouwer, Noortje Venhuizen, and Matthew W. Crocker. The Electrophysiology of Language Comprehension: A Neurocomputational Model. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society (CNS2016)*, April 2-5, New York, USA, 2016.
9. Brian Sullivan, Harm Brouwer, Alba Rodriguez, Matthew W. Crocker and Pia Knoeferle,. Eye movements during linguistic-visual conflicts. Poster presented at the *3rd workshop on the Attentive Listener in the Visual World (AttLis)*, Potsdam, Germany, March 10-11, 2016.
10. Jesús Calvillo, Harm Brouwer and Matthew W. Crocker. Connectionist Semantic Systematicity in Language Production. Poster presented at: *The 15th Neural Computation and Psychology Workshop*; Philadelphia, PA, USA, August 8-9, 2016.
11. Brian Sullivan, Harm Brouwer, Alba Rodriguez., Ricardo Matos, Tommi Strandvall, Matthew W. Crocker and Pia Knoeferle. Visual attention during linguistic-visual conflicts. Poster presented at the *European Conference on Visual Perception (ECVP2015)*, Liverpool, UK, August 23-27, 2015.
12. Yoana Vergilova, Heiner Drenhaus and Matthew W. Crocker. Hemispheric sensitivity to frequency and predictability: Evidence from early and late ERPs. Poster presented at: *The 20th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Edinburgh, UK, 4-6 September, 2014.
13. Francesca Delogu, Heiner Drenhaus and Matthew W. Crocker. The influence of script knowledge on expectations: Evidence from ERPs. Poster presented at: *The 20th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Edinburgh, UK, 4-6 September, 2014.
14. Yoana Vergilova, Heiner Drenhaus, and Matthew W. Crocker. ERP indices of word frequency and predictability in left and right hemispheres. Poster presented at Annual Neurobiology of Language Conference (NLC), Amsterdam, August 2014.
15. Francesca Delogu, Heiner Drenhaus and Matthew W. Crocker. Teasing apart coercion and surprisal: evidence from ERPs and eye-movements? Talk presented at: *The 26th Annual CUNY Conference on Human Sentence Processing*, Columbia, South Carolina, USA, March 2013.
16. Francesca Delogu, Matthew W. Crocker and Heiner Drenhaus. When coercion comes as a surprise: an ERP study in German. Poster presented at Annual Neurobiology of Language Conference (NLC), San Sebastian, Spain, 25-27 October, 2012.

17. Heiner Drenhaus, Pirita Pyykkönen-Klauck and Matthew W. Crocker. Computation and cancellation of scalar implicatures: ERP evidence Poster presented at: *The 18th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Riva del Garda, Italy, 6-8 September, 2012.
18. Francesca Delogu and Matthew W. Crocker. When is coercion simply surprisal? Poster presented at: *The 18th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Riva del Garda, Italy, 6-8 September, 2012.
19. Maria Staudte, Matthew W. Crocker, Alexander Koller and Konstantina Garoufi. Grounding spoken instructions using listener gaze in dynamic virtual environments. Talk presented at: *The 5th Workshop on Embodied and Situated Language Processing*, Newcastle, UK, August 2012.
20. Heiner Drenhaus, Andrea Weber and Matthew W. Crocker. Visually grounded expectations influence semantic integration: An ERP (event related brain potentials) study on situated language. Poster to be presented at: *The 11th International Conference Neuroscience (ICON XI)*, Mallorca, Spain, September 2011.
21. Florian Niefind, Heiner Drenhaus and Matthew W. Crocker. The influence of discourse events on verb integration and noun expectations: An ERP study on German. Poster to be presented at: *The 11th International Conference Neuroscience (ICON XI)*, Mallorca, Spain, September 2011.
22. Pirita Pyykkönen, Heiner Drenhaus and Matthew W. Crocker. Expectations of discourse salience: An ERP study of argument order preferences for ditransitive verbs. Poster presented at: *The 17th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Paris, France, September 2011.
23. Heiner Drenhaus, Maria Staudte and Matthew W. Crocker. When gaze makes a difference: A comparative ERP study of gaze and arrow cues during sentence comprehension. Poster presented at: *The 17th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Paris, France, September 2011.
24. Judith Köhne and Matthew W. Crocker. The Nature and Interaction of Word-Learning Mechanisms Determine How Meanings are Represented. Poster presented at: *The 17th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Paris, France, September 2011.
25. Florian Niefind, Heiner Drenhaus and Matthew W. Crocker. Discourse events influence verb integration and argument prediction: Evidence from ERPs. Poster presented at: *The 17th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, Paris, France, September 2011.
26. Heiner Drenhaus, Maria Staudte and Matthew W. Crocker. The influence of referential gaze on scene-sentence integration: An ERP study. Talk presented at: *The 4th Workshop on Embodied and Situated Language Processing*, Bielefeld, Germany, August 2011.
27. Pirita Pyykkönen and Matthew W. Crocker. Linguistically and visually driven attention in multimodal change detection tasks. Poster presented at: *The 16th European Conference on Eye Movements (ECEM)*, Marseille, France, August, 2011.
28. Maria Staudte, Matthew W. Crocker, Alexis Heloir and Michael Kipp. Speaker gaze affects utterance comprehension beyond visual attention shifts. Talk presented at: *The 24th Annual CUNY Conference on Human Sentence Processing*, Stanford, Palo Alto, USA, 2011.
29. Judith Koehne and Matthew W. Crocker. Sentence processing mechanisms trump statistical word learning. Poster presented at: *The 24th Annual CUNY Conference on Human Sentence Processing*, Stanford, Palo Alto, USA, 2011.
30. Emilia Ellsiepen and Matthew W. Crocker. Anticipatory eye-movements reflect conceptual, not lexical, expectations. Poster presented at: *The 24th Annual CUNY Conference on Human Sentence Processing*, Stanford, Palo Alto, USA, 2011.
31. Pirita Pyykkönen and Matthew W. Crocker. Attention to (changing) objects on the visual scene during linguistic change detection task. Poster presented at: *The 51st Annual Meeting of the Psychonomics Society*, Saint Louis, Missouri, November, 2010.
32. Judith Koehne and Matthew W. Crocker. The Interaction of Statistics and Selectional Constraints in Situated Word Learning. Poster presented at: *The 3rd Workshop on Embodied and Situated Language Processing*, San Diego, California, September 2010.
33. Pirita Pyykkönen and Matthew W. Crocker. Attention to linguistic focus and (changing) visual objects during language change detection task. Poster presented at: *The 16th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, York, UK, September 2010.

34. Judith Koehne and Matthew W. Crocker. Statistics and Language-World Knowledge Interact in Foreign-Language Word Learning', Poster presented at: *The 16th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP)*, York, UK, September 2010.
35. Judith Koehne and Matthew W. Crocker. Top-down Cues Help to Understand Foreign Language Input and Improve Word Learning. Talk presented at: *The 20th Annual Conference of the European Second Language Association Conference (EUROSLA)*, Reggio Emilia, Italy, 2010.
36. Judith Koehne and Matthew W. Crocker. Sentence Processing Mechanisms Influence Foreign Language Word Learning', Poster presented at: *The 23rd Annual CUNY Conference on Human Sentence Processing*, New York, USA, 2010.
37. Judith Koehne and Matthew W. Crocker. Processing and learning foreign languages in natural contexts. Poster presented at: *The 15th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP),* Barcelona, Spain, September 2009.
38. Garance Paris and Matthew W. Crocker. Modeling the effect of gender on lexical access. Poster presented at: *The 15th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP),* Barcelona, Spain, September 2009.
39. Juliane Steinberg and Matthew W. Crocker. How does looking benefit spoken word comprehension? Poster presented at: *The 15th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP),* Barcelona, Spain, September 2009.
40. Emilia Ellsiepen and Matthew W. Crocker. Memory capacity limitations on the use of visual context in human language comprehension. Poster presented at: *The 15th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP),* Barcelona, Spain, September 2009.
41. Matthew W. Crocker, Marshall Mayberry and Pia Knoeferle. Indexing neural correlates in a connectionist model of situated comprehension. Paper presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
42. Igor Farkas and Matthew W. Crocker. Investigating connectionist semantic systematicity in a block microworld. Paper presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
43. Emilia Ellsiepen and Matthew W. Crocker. Visual Working Memory in Situated Language Comprehension. Poster presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
44. Judith Koehne and Matthew W. Crocker. Situated Language Learning. Poster presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
45. Maria Staudte and Matthew W. Crocker. Gaze Grounds Meaning in Situated Human-Robot Interaction. Poster presented at: *The 2nd Workshop on Embodied and Situated Language Processing*; Rotterdam, The Netherlands, July 2009.
46. Matthew W. 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.
47. Maria Staudte and Matthew W. Crocker. The utility of gaze in spoken human-robot interaction. Presented at: *Scandinavian Workshop on Applied Eye-Tracking,* April 2008.
48. Emilia Ellsiepen, Matthew W. Crocker and Pia Knoeferle. Prior scene events influence on-line syntactic disambiguation. Poster presented at: *Scandinavian Workshop on Applied Eye-Tracking,* April 2008.
49. Emilia Ellsiepen, Pia Knoeferle and Matthew W. 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.
50. Marshall Mayberry and Matthew W. 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.
51. Juliane Steinberg and Matthew W. 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.

52. Matthew W. 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.

53. Marshall Mayberry and Matthew W. Crocker. An Attentional Model of Situated Language Understanding. Paper presented at: *AMLaP-2007*, Turku, Finland, August 2007.

54. Juliane Steinberg and Matthew W. Crocker. Noun-contingent Eye Movements in Visual Worlds During a Lexical Decision Task. Poster presented at: *AMLaP-2007*, Turku, Finland, August 2007.

55. Pia Knoeferle and Matthew W. Crocker. Eye tracking parallelism in coordinate constructions. Paper presented at The European Conference on Eye Movements, Berlin, August 2007.

56. Matthew W. 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.

57. Pia Knoeferle and Matthew W. 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.

58. Marshall Mayberry, Matthew W. 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.

59. Ulrike Pado, Frank Keller and Matthew W. 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.

60. Andrea Weber and Matthew W. 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.

61. Pia Knoeferle and Matthew W. Crocker. Clause-level and constituent-level parallelism: eye-tracking coordinate structures in German. Paper presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.

62. Juliane Steinberg and Matthew W. 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.

63. Marshall Mayberry, Matthew W. Crocker and Pia Knoeferle. A Connectionist Model of Situated Sentence Comprehension and Visual Attention. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.

64. Jens Apel, Pia Knoeferle and Matthew W. Crocker. Processing Parallel Structure: Evidence from Eye-Tracking and a Computational Model. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.

65. Garance Paris, Andrea Weber and Matthew W. Crocker. German Morphosyntactic Gender and Lexical Access. Poster presented at: *AMLaP-2006*, Nijmegen, The Netherlands, August 2006.

66. Kerstin Hadelich and Matthew W. Crocker. Gaze alignment of interlocutors in conversational dialogues. Paper presented at: *Eye Tracking Research and Applications*. San Diego, CA, 27-29 March, 2006.

67. Andrea Weber and Matthew W. 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.

68. Pia Knoeferle and Matthew W. 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.

69. Kerstin Hadelich and Matthew W. Crocker. Dialogue. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; New York, NY, 23-25 March, 2006.

70. Pia Knoeferle and Matthew W. 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.

71. Pia Knoeferle and Matthew W. 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.

72. Pia Knoeferle, Boukje Habets, Matthew W. Crocker and Thomas Münte. Early effects of depicted events on disambiguation of locally structurally ambiguous sentences. Poster presented at: *Interntional Conference on Neuroscience (ICON 9)*, Havana, Cuba, September 2005.

73. Ulrike Pado, Frank Keller and Matthew W. Crocker. Predicting plausible roles for verb-argument pairs. Paper presented at: *AMLaP-2005*, Ghent, Belgium, September 2005.

74. Kerstin Hadelich, Matthew W. 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.

75. Pia Knoeferle and Matthew W. 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.

76. Marshall Mayberry, Matthew W. 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.

77. Marshall Mayberry and Matthew W. 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.

78. Pia Knoeferle, Boukje Habets, Matthew W. 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.

79. Ulrike Pado, Matthew W. 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.

80. Pia Knoeferle, Shravan Vasishth, Matthew W. 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.

81. Matthew W. 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.

82. Pia Knoeferle and Matthew W. Crocker. Beyond unrestricted interaction: the priority of depicted events over stored knowledge. Poster presented at: *AMLaP-2004*, Aix-en-Provence, France, September 2005.

83. Marshall Mayberry and Matthew W. Crocker. Anticipation and early disambiguation: A model of sentence comprehension in visual worlds. Poster presented at: *AMLaP-2004*, Aix-en-Provence, France, September 2005.

84. Kerstin Hadelich, Holly Branigan, Martin Pickering and Matthew W. 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.

85. Marshall Mayberry and Matthew W. 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.

86. Kerstin Hadelich, Holly Branigan, Martin Pickering and Matthew W. Crocker. Effects of visual and verbal Feedback on Alignment. Poster presented at: *The Annual CUNY Conference on Sentence Processing;* College Park, MD, March 2004.

87. Andrea Weber, Bettina Braun, Matthew W. 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.

88. Pia Knoeferle and Matthew W. 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.

89. Pia Knoeferle, Matthew W. 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.

90. Pia Knoeferle, Matthew W. 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.

91. Andrea Weber, Martine Grice, and Matthew W. Crocker. Effects of prosody on the resolution of word order ambiguities. Poster presented at: *AMLaP-2003*, Glasgow, Scotland, August 2003.

92. 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.

93. Christoph Scheepers, Sandra Muckel and Matthew W. Crocker. Anticipation of Particle Verb Meanings in Visual Worlds. Poster presented at: *European Conference on Eye Movements*, Dundee, UK, August 2003.

94. Kerstin Hadelich, Matthew W. 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.

95. Pia Knoeferle, Matthew W. 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.

96. Christoph Scheepers, Sandra Muckel, Matthew W. 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.

97. Matthew W. 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.

98. Christoph Scheepers and Matthew W. Crocker. Constituent order priming from reading to listening. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.

99. Sandra Muckel, Christoph Scheepers, Matthew W. Crocker and Karin Müller. Anticipating German particle verb meanings: Effects of lexical frequency and plausibility. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.

100. Pia Knöferle, Matthew W. Crocker, Christoph Scheepers and Martin Pickering. Anticipatory eye movements in initially ambiguous sentences. Paper presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.

101. Kerstin Hadelich, Matthew W. Crocker, and Christoph Scheepers. Powerful pictures: Priming planning or production or both? Poster presented at: *AMLaP-2002*, Tenerife, Spain, September 2002.

102. Yuki Kamide, Christoph Scheepers, Gerry Altmann and Matthew W. 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.

103. Patrick Sturt, Christoph Scheepers, Martin Pickering and Matthew W. 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.

104. Matthew W. 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.

105. Matthew W. Crocker and Thorsten Brants. Incremental Probabilistic Models of Human Linguistic Performance. Paper presented at: *AMLaP-99*; Edinburgh, UK, September 1999.

106. Matthew W. 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.

107. Patrick Sturt, Martin Pickering, and Matthew W. Crocker. Structural Change and Reanalysis Difficulty. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; New Brunswick, NJ, March 1998.

108. Patrick Sturt, Matthew W. 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.

109. Martin Pickering, Matthew W. 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.

110. Matthew W. Crocker and Martin Pickering. A Rational Analysis of Sentence Parsing. Paper presented at: *AMLaP-96*; University of Torino, Torino, Italy, September 1996.

111. Matthew W. 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

112. Martin Pickering and Matthew W. Crocker. A Rational Analysis of Parsing and Interpretation. Paper presented at: *Conference on Rational Models of Cognition*; University of Warwick, UK, July 1996.

113. Steffan Corley and Matthew W. 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.

114. Matthew W. Crocker. Incremental Stochastic Parsing and Reanalysis. Poster presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, March 1995.

115. Patrick Sturt and Matthew W. Crocker. Monotonic Parsing and Reanalysis. Paper presented at: *The Annual CUNY Conference on Sentence Processing*; Tucson, AZ, March 1995.

116. Matthew W. 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].

117. Matthew W. Crocker. Principle-Based Sentence Processing: A Cross-Linguistic Account. A poster at: *The 3rd Annual CUNY Conference on Sentence Processing*; New York, March 1990.

118. Matthew W. 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/Colloquium Talks:

- Center for Cognition and Communication, Tilburg, The Netherlands (April, 2018)
- Center for Research on Language (CRL), UC San Diego (November 2016)
- Institute for Psychology, Goettingen University (June 2015)
- Dept. of Center for Cognitive Science, University of Kaiserslautern (April 2014)
- Center for Research on Language (CRL), UC San Diego (March 2013)
- 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)