

Curriculum Vitae

Robert P. Malouf

Business Address:

Department of Linguistics and Asian/Middle Eastern Languages
San Diego State University
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Academic employment

- 2008–present Associate Professor, Department of Linguistics and Asian/Middle Eastern Languages, San Diego State University.
- 2004–present Consultant, CommonHealth. Discourse analysis and text mining.
- 2002–2008 Assistant Professor, Department of Linguistics and Asian/Middle Eastern Languages, San Diego State University.
- 2002 Koninklijke Nederlandse Akademie van Wetenschappen ‘Akademie-Onderzoeker’ [Royal Dutch Academy of Arts and Sciences ‘Academy Researcher’], humanities computing department, University of Groningen, The Netherlands. Project: *Feature selection for disambiguation*.
- 2001 Postdoctoral researcher, humanities computing department, University of Groningen, The Netherlands. Project: *Algorithms for linguistic processing*.
- 1999–2001 Postdoctoral researcher, School of Behavioral and Cognitive Neurosciences, University of Groningen, The Netherlands. Project: *Computational and theoretical modeling of structures in performance*.
- 1998–1999 Lecturer, linguistics department, University of California at Berkeley.
- 1998–1999 Research Engineer, Center for the Study of Language and Information, Stanford University.
- 1994–1998 Research assistant, LinGO project, Center for the Study of Language and Information, Stanford University.
- 1990–1992 Research assistant, word order typology project, Prof. Matthew Dryer, SUNY Buffalo.

Education

Ph.D. in linguistics, Stanford University, 1992–1998. Dissertation title: *Mixed categories in the hierarchical lexicon*. Thesis committee: Ivan A. Sag (chair), Peter Sells, Elizabeth Traugott, Thomas Wasow.

B.A. (Honors) Summa cum laude in linguistics and computer science, State University of New York at Buffalo, 1987–1992.

Grants and Awards

“Taking sides: User classification for informal online political discourse,” published in *Internet Research*, was chosen as a Highly Commended Award Winner at the Emerald Literati Network Awards for Excellence 2009.

Education Center on Computational Science and Engineering Faculty Fellowship, San Diego State University, 2003.

Koninklijke Nederlandse Akademie van Wetenschappen [Royal Dutch Academy of Arts and Sciences] Research Fellowship, 2002.

National Science Foundation Graduate Fellowship, 1992–1995.

Phi Beta Kappa, 1992.

Publications

Books

Proceedings of the Ninth International Workshop on Parsing Technologies (IWPT'05). Robert Malouf (editor). 2005. Vancouver, BC.

Mixed Categories in the Hierarchical Lexicon. Robert Malouf. 2000. Stanford: CSLI Publications. [Revised and updated version of 1998 Stanford University dissertation.]

Refereed journals

“Taking sides: User classification for informal online political discourse.” Robert Malouf and Tony Mullen. 2008. *Internet Research*. **18**(2):177–190.

“Maximal consistent subsets.” Robert Malouf. 2007. *Computational Linguistics* **33**(2):153–160.

“Satisfying constraints on adjunction and extraction.” Gosse Bouma, Robert Malouf, and Ivan A. Sag. 2001. *Natural Language and Linguistic Theory* **19**(1):1–65.

“Efficient feature structure operations without compilation.” Robert Malouf, John Carroll, and Ann Copestake. 2000. *Natural Language Engineering* **6**(1):29–46.

Refereed book chapters

- “Maximum entropy models.” Robert Malouf. In press. In Alex Clark, Chris Fox and Shalom Lappin (eds.), *Blackwell Computational Linguistics and Natural Language Processing Handbook*.
- “Parts and wholes: Patterns of relatedness in complex morphological systems and why they matter.” 2009. Farrell Ackerman, James P. Blevins, and Robert Malouf. To appear. In Jim Blevins and Juliette Blevins (eds.), *Analogy in Grammar: Form and Acquisition*. Oxford: Oxford University Press. Pages 54–82.
- “Mixed categories.” Robert Malouf. 2006. In K. Brown (ed.), *Encyclopedia of Language and Linguistics, 2nd Edition*. Elsevier. Vol. 8, pages 175–184.
- “Cooperating constructions.” Robert Malouf. 2003. In E. Francis and L. Michaelis (eds.), *Mismatch: Form-Function Incongruity and the Architecture of Grammar*. Stanford: CSLI Publications. Pages 403–424.
- “Efficient feature structure operations without compilation.” Robert Malouf, John Carroll, and Ann Copestake. 2003. In S. Oepen, D. Flickinger, J. Tsujii, and H. Uszkoreit (eds.), *Collaborative Language Engineering*. Stanford: CSLI Publications. Pages 103–124. [Reprinted version of Malouf, Carroll, and Copestake 2000.]
- “The Alpino Dependency Treebank.” Leonoor van der Beek, Gosse Bouma, Robert Malouf, and Gertjan van Noord. 2002. In M. Theune, A. Nijholt, and H. Hondorp (eds.), *Computational Linguistics in the Netherlands 2001*. Amsterdam: Rodopi. Pages 8–22.
- “Alpino: Wide coverage computational analysis of Dutch.” Gosse Bouma, Gertjan van Noord, and Robert Malouf. 2001. In W. Daelemans, K. Sima’an, J. Veenstra, and J. Zavrel (eds.), *Computational Linguistics in the Netherlands 2000*. Amsterdam: Rodopi. Pages 45–59.
- “A head-driven account of long-distance case assignment.” Robert Malouf. 2000. In R. Cann, C. Grover, and P. Miller (eds.), *Grammatical Interfaces in HPSG*. Stanford: CSLI Publications. Pages 201–214.
- “Verbal gerunds as mixed categories in HPSG.” Robert Malouf. 2000. In R. Borsley (ed.), *The Nature and Function of Syntactic Categories*, volume 32 of *Syntax and Semantics*. New York: Academic Press. Pages 133–166.
- “West Greenlandic noun incorporation in a monohierarchical theory of grammar.” Robert Malouf. 1999. In G. Webelhuth, A. Kathol, and J.-P. Koenig (eds.), *Lexical and Constructional Aspects of Linguistic Explanation*. Stanford: CSLI Publications. Pages 47–62.

Refereed conference proceedings

- “Graph-based user classification for informal online political discourse.” Robert Malouf and Tony Mullen. 2007. In *Proceedings of the 1st Workshop on Information Credibility on the Web (WICOW)*. Miyazaki, Japan. Pages 108–115.
- “Mining web texts for brand associations.” Robert Malouf, Bradley Davidson, and Ashli Sherman. 2006. In *Proceedings of the American Association for Artificial Intelligence Spring Symposium on “Computational Approaches to Analyzing Weblogs”*. Pages 125–126.

- “A preliminary investigation into sentiment analysis of informal political discourse.” Tony Mullen and Robert Malouf. 2006. In *Proceedings of the American Association for Artificial Intelligence Spring Symposium on “Computational Approaches to Analyzing Weblogs”*. Pages 159–162.
- “Wide coverage parsing with stochastic attribute value grammars.” Robert Malouf and Gertjan van Noord. 2004. In *Proceedings of the IJCNLP-04 Workshop: Beyond shallow analyses—Formalisms and statistical modeling for deep analyses*.
- “Markov models for language-independent named entity recognition.” Robert Malouf. 2002. In *Proceedings of the Sixth Conference on Natural Language Learning (CoNLL-2002)*. Pages 183–186.
- “A comparison of algorithms for maximum entropy parameter estimation.” Robert Malouf. 2002. In *Proceedings of the Sixth Conference on Natural Language Learning (CoNLL-2002)*. Pages 49–55.
- “Statistical parsing of Dutch using maximum entropy models with feature merging.” Tony Mullen, Robert Malouf, and Gertjan van Noord. 2001. In *Proceedings of the 6th Natural Language Processing Pacific Rim Symposium*. Pages 481–486.
- “Using an open-source unification-based system for CL/NLP teaching.” Ann Copestake, John Carroll, Dan Flickinger, Robert Malouf, and Stephan Oepen. 2001. In *Proceedings of the ACL/EACL 2001 Workshop on Sharing Tools and Resources for Research and Education*. Pages 35–38.
- “The order of prenominal adjectives in natural language generation.” Robert Malouf. 2000. In *Proceedings of the 38th Annual Meeting of the Association for Computational Linguistics (ACL 2000)*. Pages 85–92.
- “A bag of useful techniques for efficient and robust parsing.” Bernd Kiefer, Hans-Ulrich Krieger, John Carroll, and Robert Malouf. 1999. In *Proceedings of the 37th Annual Meeting of the Association for Computational Linguistics (ACL 99)*. Pages 473–480.
- “A unified theory of complement, adjunct, and subject extraction.” Gosse Bouma, Robert Malouf, and Ivan Sag. 1998. In *Proceedings of the Joint Conference on Formal Grammar, Head-Driven Phrase Structure Grammar and Categorical Grammar*, Saarbrücken. Pages 83–97.
- “Categories, prototypes, and default inheritance.” Robert Malouf. 1998. In *Proceedings of the Joint Conference on Formal Grammar, Head-Driven Phrase Structure Grammar and Categorical Grammar*, 1998, Saarbrücken. Pages 207–216.
- “A constructional approach to English verbal gerunds.” Robert Malouf. 1996. In *Proceedings of the Twenty-second Annual Meeting of the Berkeley Linguistics Society*. Pages 255–266.
- “Translation using Minimal Recursion Semantics.” Ann Copestake, Dan Flickinger, Robert Malouf, Susanne Riehemann and Ivan A. Sag. 1995. In *Proceedings of the Sixth International Conference on Theoretical and Methodological Issues in Machine Translation (TMI95)*, Leuven. Pages 15–32.

Book reviews

Review of *Corpus Linguistics: Readings in a Widening Discipline*, Geoffrey Sampson and Diana McCarthy (eds.). Robert Malouf. 2006. *Computational Linguistics* 32(1):153–155.

Presentations**Refereed conferences without proceedings (selected)**

- “Paradigm entropy as a measure of morphological simplicity.” Robert Malouf and Farrell Ackerman. Paper accepted for presentation at the Surrey Morphology Group Workshop on Morphological Complexity, January 2010, Cambridge MA.
- “An evolutionary explanation for the Paradigm Economy Principle.” Robert Malouf and Farrell Ackerman. Paper accepted for presentation at the Annual Meeting of the Linguistic Society of America, January 2010, Baltimore.
- “An entropy-based measure of morphological information.” James Blevins, Farrell Ackerman, and Robert Malouf. Paper presented at the 3rd Workshop on “Quantitative Investigations in Theoretical Linguistics” (QITL-3), July 2008, Helsinki.
- “A construction-theoretic approach to lexical periphrasis in Hungarian complex predicates.” Farrell Ackerman, Robert Malouf, and Gert Webelhuth. 18th International Congress of Linguists, July 2008, Seoul.
- “Disjunctive rule ordering in finite state morphology.” Robert Malouf. 41st Annual Meeting of the Chicago Linguistics Society, April 2005.
- “Possessive relatives and cooperating constructions.” Farrell Ackerman, Robert Malouf, and Irina Nikolaeva. Eleventh International Conference on Head-Driven Phrase Structure Grammar, August 2004, Leuven.
- “Cooperating constructions in Tundra Nenets.” Farrell Ackerman, Robert Malouf, and Irina Nikolaeva. Third International Conference on Construction Grammar, July 2004, Marseille.
- “Probabilistic parsing with the Alpino grammar.” Tony Mullen, Robert Malouf, and Gertjan van Noord. Computational Linguistics in the Netherlands (CLIN-2001), November 2001, Enschede.
- “The Alpino dependency treebank.” Leonoor van der Beek, Gosse Bouma, Robert Malouf, and Gertjan van Noord. Computational Linguistics in the Netherlands (CLIN-2001), November 2001, Enschede.
- “The Alpino dependency treebank.” Leonoor van der Beek, Gosse Bouma, Robert Malouf, and Gertjan van Noord. Empirical methods in the new millennium: Linguistically Interpreted Corpora (LINC 2001), August 2001, Leuven.
- “A toolkit for robust and efficient maximum entropy language modeling.” Robert Malouf and Miles Osborne. Computational Linguistics in the Netherlands (CLIN-2000), November 2000, Tilburg.

- “Scalable grammar software for computational linguists: Building, testing, and running grammars large and small.” Ulrich Callmeier, Ann Copestake, Dan Flickinger, Robert Malouf, and Stephan Oepen. System demo, Thirty-eighth Annual Meeting of the Association for Computational Linguistics, October 2000, Hong Kong.
- “Two methods for predicting the order of prenominal adjectives in English.” Robert Malouf. Computational Linguistics in the Netherlands (CLIN-99), December 1999, Utrecht.
- “A head-driven account of long-distance case assignment.” Robert Malouf. Sixth International Conference on Head-Driven Phrase Structure Grammar, August 1999, Edinburgh.
- “Adjunct scope and complex predicates.” Gosse Bouma, Robert Malouf, and Ivan A. Sag. 20th Annual Meeting of the Deutsche Gesellschaft für Sprachwissenschaft (DGfS). Section 8: The Syntax of Adverbials—Theoretical and Cross-linguistic Aspects, March 1998, Halle.
- “Satisfying constraints on adjunction and extraction.” Gosse Bouma, Robert Malouf, and Ivan A. Sag. Annual Meeting of the Linguistic Society of America, January 1998, New York.
- “Coherent nominalizations.” Robert Malouf. Annual Meeting of the Linguistic Society of America, January 1998, New York.
- “West Greenlandic noun incorporation in a monohierarchical theory of grammar.” Robert Malouf. Fourth International Conference on Head-Driven Phrase Structure Grammar, July 1997, Ithaca.
- “West Greenlandic noun incorporation as a mixed category construction.” Robert Malouf. Annual Meeting of the Linguistic Society of America, January 1997, Chicago.
- “Mixed categories in HPSG.” Robert Malouf. Third International Conference on Head-Driven Phrase Structure Grammar, May 1996, Marseille.
- “Some theoretical consequences of Potawatomi inflection.” Robert Malouf. First International Conference on Head-Driven Phrase Structure Grammar, August 1994, Copenhagen.

Invited conference talks (selected)

- “Treebanks and evolutionary simulation for explaining typological patterns.” Invited lecture at the 7th Workshop on Treebanks and Linguistic Theory, January 2009, Groningen.
- “Inflectional morphology as a complex adaptive system.” With Farrell Ackerman and James Blevins. Paper presented at the First Annual Complex Systems and Language Workshop, Tucson, 2008.
- “Patterns of relatedness in complex morphological systems and why they matter.” With Farrell Ackerman. Workshop on Analogy in Grammar: Form and Acquisition. Department of Linguistics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, September 2006.

- “Paradigm organization in the nominal declension system of Tundra Nenets.” With Farrell Ackerman. *Words and Paradigms: Perspectives on Uralic*, 12th International Morphology Meeting, Budapest, Hungary, May 2006.
- “A quantitative look at mixed category constructions.” Tenth International Conference on Head-Driven Phrase Structure Grammar, East Lansing (MI), July 2003.
- “Cross-categorial constructions.” Summer Institute in Cognitive Sciences, Université du Québec à Montréal, July 2003.
- “Mixed categories in constraint-based grammars.” Emanuel Vasiliu Lectures in Formal Grammars, University of Bucharest, April 2002.
- “Cooperating constructions.” Workshop on Approaches to Mismatch, Berkeley Formal Grammar Conference, July 2000.
- “Practical and efficient default unification.” Workshop on Efficient Language Processing with High-level Grammar Formalisms, October 1999, Schloß Dagstuhl.
- “Choosing and implementing a unifier.” With John Carroll. First Working Meeting on Efficient Parsing with Wide-coverage HPSG Grammars, March 1999, Berlin.
- “Natural language generation for a speech prosthesis.” With Ivan Sag, Herbert Clark, Ann Copestake, Dan Flickinger, and John Carroll. Poster session, National Science Foundation Human-Computer Interaction Program Grantees’ Workshop, February 1999, Orlando
- “A look under the hood at two language engines.” With Ann Copestake. CSLI Industrial Affiliates Program tutorial, May 1997, Stanford.
- “Implementing HPSG grammars in ALE.” Korea Telecom/CSLI Joint Workshop, December 1994, Seoul.
- “Binding and extraction in Mohawk.” Head-Driven Phrase Structure Grammar Workshop, European Summer School in Language, Logic, and Information, August 1994, Copenhagen.
- “Mohawk agreement and HPSG.” HPSG Workshop, Linguistic Society of America Linguistic Institute, The Ohio State University, July 1993.

Other presentations (selected)

- “Tutorial on maximum entropy models.” Rijksuniversiteit Groningen, January 2009.
- “User classification for informal online political discourse.” UCSD Artificial Intelligence colloquium, May 2007.
- “Latent Semantic Analysis.” MBS/Vox, August 2005.
- “Mining corpora for linguistic insights.” Department of Linguistics, University of Oslo, August 2004.
- “Natural language processing: A painless introduction.” MBS/Vox, May 2004.
- “Closer to ‘near’.” UCSD Linguistics colloquium. November 2003.

- “Language and Computation.” SDSU Linguistic Student Association Brown Bag lunch, February 2003.
- “English verbal gerunds as a mixed category construction.” Department of English Linguistics, University of Göttingen, November 2002.
- “Stochastic Unification-Based Grammars.” Computational Science colloquium, San Diego State University, November 2002.
- “Stochastic Head-Driven Phrase Structure Grammar.” Human Communication Research Centre, University of Edinburgh, June 2001.
- “Practical and efficient default unification.” Microsoft Research, December 2000, Redmond, Washington.
- “The order of prenominal adjectives in natural language generation.” School of Cognitive and Computing Sciences, University of Sussex, June 2000.
- “Choosing and implementing a unifier.” Computer science department, Duke University, March 1999.
- “Mixed categories in the hierarchical lexicon.” Center for Research in Language, University of California at San Diego, November 1997.

Courses taught

San Diego State University (2002–present)

- *Language and Computers*. Undergraduate general education survey of computational linguistics.
- *Fundamentals of Linguistics*. Upper division undergraduate / beginning graduate.
- *Computational Corpus Linguistics*. Upper division undergraduate / beginning graduate.
- *Morphology*. Upper division undergraduate / beginning graduate.
- *Introduction to Computational Linguistics*. Upper division undergraduate / beginning graduate, cross-listed in computer science dept.
- *Advanced Formal Syntax*. Graduate.
- *Statistical Methods in Computational Linguistics*. Graduate.
- *Advanced Statistical Methods in Computational Linguistics*. Advanced graduate.
- *Seminar: Simulation in Linguistic Theory*. Advanced graduate.
- *Seminar: Dependency Parsing*. Advanced graduate.
- *Seminar: Analyzing Web Texts*. Advanced graduate.
- *Seminar: Text Mining*. Advanced graduate.
- *Seminar: Machine Learning*. Advanced graduate.

University of Groningen (1999–2002)

- *Corpus Linguistics*. With Jack Hoeksema and Tanja Gaustad.
- *Selected Topics in Natural Language Processing*.

UC Berkeley (1998–1999)

- *Syntax and Semantics*.
- *Advanced Morphology*.

Summer schools

- *An Introduction to Stochastic Attribute-Value Grammars*. European Summer School in Logic, Language, and Information (ESSLI), Helsinki, Summer 2001. With Miles Osborne.
- *Statistics for Linguists*. HPSG Summer School Trondheim, Summer 2001.
- *An Introduction to Grammar Engineering using HPSG*. European Summer School in Logic, Language, and Information (ESSLI), Birmingham, Summer 2000. With Ann Copestake. An Introduction to Grammar Engineering using Head-Driven Phrase Structure Grammar.

Service

Area chair for statistical methods and machine learning: International Joint Conference on Natural Language Processing (IJCNLP-08), Hyderabad.

Program committee chair: Ninth International Workshop on Parsing Technologies (IWPT-05), Vancouver, BC.

Member of the editorial board, *Computational Linguistics* and *Natural Language and Linguistic Theory*

HPSG-L electronic mailing list manager, 1997–present

SDSU Department of Linguistics and Asian/Middle Eastern Languages service

- Budget committee, 2007–2009
- Curriculum committee, 2009–present
- Graduate admissions committee, 2003–present
- Web site committee, 2003–2004
- Computational Linguistics lab manager, 2002–present (Supervise graduate assistants, maintain hardware and software, coordinate repairs and upgrades)
- Linguistics Student Association faculty advisor, SDSU Department of Linguistics and Asian/Middle Eastern Languages, Spring 2005 and 2009–present.

November, 2009