

## Martha Stone Palmer

### Education

- University of Edinburgh:** 1985 - PhD, Artificial Intelligence  
*Driving Semantics for Limited Domains*, Alan Bundy, Adviser
- University of Texas:** 1976 - MA, Computer Science,  
1972 - BA, Philosophy, Honors

### Positions Held

- University of Colorado, Boulder, CO, 80309** 2005-now  
Associate Professor: Institute of Cognitive Science Faculty,  
Departments of Linguistics & Computer Science  
Co-Director, CLEAR, Center for Computational Language and Education Research, 2008 - now
- University of Pennsylvania, Philadelphia, PA 19104** 1993-2005  
Associate Professor: Department of Computer and Information Science 1999 – 2005  
Graduate Group Member, Linguistics Department (tenure awarded, June, 2004)  
Visiting Associate Professor: Department of Computer and Information Science (98/99)  
Director of Technology: Institute for Research in Cognitive Science (96/98)  
Adjunct Associate Prof: Department of Computer and Information Science (93/98)
- University of Delaware, Newark, DE** 1993 – 1994  
Associate Research Prof: Department of Computer and Information Science
- National University of Singapore, Singapore** 1990 - 1993  
Visiting Senior Fellow: Department of Information Systems and Computer Science  
Adjunct Senior Lecturer: Institute of System Science (1993)
- UNISYS Corporation, Philadelphia, PA** 1983 - 1990  
Sr. Research Scientist: Logic-Based Systems Group (Artificial Intelligence)  
Staff Scientist (83/84), Manager (84/85)
- University of Pennsylvania, Philadelphia, PA** 1980 - 1987  
Sloan Research Fellow: Department of Computer and Information Science (80/81)  
Adjunct Prof: Department of Computer and Information Science (84/87)
- Duke University, Durham, NC** 1979 - 1980  
Visiting Lecturer: Department of Computer Science
- Edinburgh University, Edinburgh, Scotland** 1974 - 1978  
Research Associate: Department of Artificial Intelligence
- University of Texas, Austin, TX** 1972 - 1974  
Research Associate: Departments of Psychology and Computer Science

## Honors/Distinctions

### **Elected Leadership Positions:**

President Pro-Tem, Association of Computational Linguistics (ACL), 2006,  
(Vice-President-Elect, 2003, Vice-President, 2004, President, 2005).

Chair, ACL-SIGHAN (Special Interest Group on Chinese Language Processing), 2001-2003.

Chair, ACL-SIGLEX (Special Interest Group on the Lexicon), 1994-2000.

**Director**, Summer Linguistics Institute, University of Colorado, 2011

**Instructor**, Summer Linguistics Institute, Stanford University, 2007

**Lecturer**, The Vilhem Malthesius Lecture Series, Charles University, Prague, the Czech Rep, 2006.

**Conference Chair:** Co-Chair, 34th Annual Meeting of the Association for Computational Linguistics  
(ACL), University of California, Santa Cruz, CA., June 23-28, 1996

Local Arrangements Chair, 40th Meeting of the Association for Computational  
Linguistics (ACL-02), U. of Pennsylvania, Philadelphia, PA, July 7 - 12, 2002.

Local Arrangements Co-Chair, The Meeting of the North American Chapter of the Association for  
Computational Linguistics, (NAACL-HLT 2009), University of Colorado, Boulder, CO, 2009

**Journal Editor:** Co-Editor, Journal of Natural Language Engineering, Cambridge University Press, 2006-  
<http://journals.cambridge.org/action/displayJournal?jid=NLE>

Co-Editor, LiLT: Linguistic Issues in Language Technology (a new on-line journal, *CSLI Studies in  
Computational Linguistics ONLINE*, Stanford University), First Issue, 2008

<http://csli-publications.stanford.edu/LiLT/index.html>

**Editorial Boards:** Language Resources and Evaluation Journal, Logic, Language and Information Book  
Series

### Invited Presentations (1997-2009):

*Can Semantic Roles Generalize across Genres?*

Keynote Address, 8<sup>th</sup> International Conference on Computational Semantics, (IWCS-8)  
Tilburg, The Netherlands, January 7-9, 2009

*The Relevance of a Cognitive Model of the Mental Lexicon to Automatic Word Sense*

*Disambiguation – and Vice Versa*

Keynote Address, Workshop on Human Judgments in Computational Linguistics, COLING-08  
Manchester, UK, August 24, 2008.

*Delving Deeper into Semantics*

Naval Research Lab  
Washington, D.C., April 11, 2008

*Semlink – Linking PropBank, VerbNet and FrameNet*

Lymba, Dallas, TX, Dec 21, 2007

Ling Circle, Linguistics Department, University of Colorado, Nov 28, 2007

*Linguistic Annotation*

Umbria, Inc. Dec, 7, 2007

*Computational Lexical Semantics, 3 Lectures,*  
 The Vilhem Malthesius Lecture Series, Institute of Formal and Applied Linguistics,  
 Faculty of Mathematics and Physics, Charles University, Prague, Czech Rep., Dec 4-8, 2006.

*Semlink – Linking PropBank, VerbNet and Framenet*  
 The Fifth Workshop on Treebanks and Linguistic Theory, TLT 2006,  
 Prague, Czech Republic, Dec 1&2, 2006.

Powerset, Inc., Palo Alto, CA, June 27, 2006.  
 TJ Watson Research Lab, IBM, June 8, 2006.  
 ISO-SIGSEM Meeting at ISI, Marina del Rey, April 21, 2006.

*Using statistics to Generalize Semantic Role Labeling (with Jim Martin)*  
 ICS Colloquium Series, U of Colorado, Boulder, CO, February 17, 2006.

*Putting Meaning into Your Trees,*  
 UCHSC Center for Computational Pharmacology, Aurora, CO, January 23, 2006.  
 Computer Science Department, University of North Texas, Denton, TX, April 1, 2005.  
 Computer Science Department, Villanova University, Villanova, PA, March, 2005.  
 Computer Science Department, Graduate Research Symposium, Penn, Phila, PA, Oct 22, 2004.  
 Computer Science Department, University of Texas, Austin, TX, October 15, 2004.  
 Cycorp, Inc., Austin, TX, October 14, 2004.  
 Invited Talk, Cognitive Science Conference 2004, Chicago, ILL, Aug 7, 2004.  
 Invited Talk, Conference on Natural Language Learning, NAACL04, Boston, MASS, May 7, 2004.  
 Center for Advanced Study of Language, University of Maryland, College Park, April 22, 2004.  
 Computer Science Department, University of Illinois, Urbana-Champaign, IL, April 15, 2004.  
 Linguistics Department, Colorado University, Boulder, Colorado, April 1, 2004.  
 Computer Science Department, Harvard University, Cambridge, MASS, March 4, 2004.  
 Computer Science Department, Rochester University, Rochester, NY, February 16, 2004.  
 Natural Language Processing Colloquium, Columbia University, NYC, NY, Jan. 29, 2004.  
 Charles University, Prague, The Czech Republic, Dec. 18, 2003.  
 LORIA-INRIA, Nancy, France, Nov. 14, 2003.  
 Computational Linguistik, Saarbrücken University, Nov. 13, 2003.  
 Cognitive Science Lab, Princeton University, Nov. 7, 2003.  
 TJ Watson Research Lab, IBM, Nov. 6, 2003.  
 Language Technology Institute, Carnegie Mellon University, Oct. 25, 2003.  
 Institute for Research in Cognitive Science, University of Pennsylvania, Oct. 17, 2003.  
 Computational Linguistics Series, CS Dept, U. of Maryland, Oct. 10, 2003.

*Proposition Bank: A Resource of Predicate Argument Structures*  
 Statistical Generation Day, Columbia University, Oct 9, 2001.

*Artificial Intelligence, Lear Symposium, Northampton College, September 27, 2001.*

*Computational Lexical Semantics and its Constraints,*  
 Xerox Research Centre - Grenoble, France, July 12, 2001.

*Artificial Intelligence*, “Radio Times” at WHYY, Philadelphia, PA, Jun 29, 2001.

*VerbNet: Augmenting English WordNet*, Chinese Language Sciences Workshop:  
Lexical Semantics, City University of Hong Kong, October 9, 2000.

*Computational Lexical Semantics and its Constraints & The Penn Chinese Treebank*,  
The 13<sup>th</sup> Research on Computational Linguistics Conference,  
(ROCLING), National Taiwan University, Taipei, Taiwan, Aug 24 / Aug 25, 2000.

*Developing guidelines and annotation accuracy for the Penn Chinese Treebank* (with Fei Xia), Computational Linguistics Series, CS Dept, U. of Maryland, May 15, 2000.

*Semantic Components in Intersective Levin Classes*,  
Center for Language and Speech Processing, Johns Hopkins, April 18, 2000.

*Constraining Computational Semantics*,  
Johns Hopkins Summer Workshop Lectures, July 8, 1999.  
UC-Berkeley, ICSI, April 29, 1999.

*Computational Lexical Semantics and its Role in Multilingual Information Processing*,  
National Security Agency, May 12, 1999.  
GTE- BBN, Boston, Mass, April 26, 1999.  
CS Dept, University of Toronto, April 15, 1999.  
CS Dept, University of Texas, March 29, 1999.

*VerbNet as a Standard for SENSEVAL2*, Oxford University Press, Oxford, UK, Jan 22, 1999.

*Intersective Levin classes and Sense Extensions*,  
CS Dept, University of Texas, July 13, 1998.  
CS Dept., Villanova U., Villanova, PA, March 13, 1998.  
Sun Labs, Chelmsford, MA, February 18, 1998.

*English/Korean Translation*, MIT Lincoln Labs, Lexington, MA, Feb 17, 1998.

*Semantic Components in Intersective Levin Classes: English & Chinese*,  
Hong Kong University of Science and Technology, Hong Kong, Oct 27, 1997.  
National University of Singapore, ISS, Singapore, Oct 25, 1997.

*The Current State of Information Processing Research in the US*,  
National University of Singapore, ISS, Singapore, Oct 25, 1997.

*Associating Semantic Features with Intersective Levin Classes*,  
Northeastern Verb Meeting, U of Pennsylvania, October, 7, 1997.  
Cognitive Science Colloq, University of Edinburgh, Edinburgh, UK, Sep, 18, 1997.

*Paradigm Shifts in Artificial Intelligence*, Department of Artificial Intelligence  
University of Edinburgh, Edinburgh, UK, September 19, 1997.

**Panel and Workshop Invited Presentations (not peer reviewed):**

*Natural Language Processing at CU: Supervised Machine Learning techniques applied to annotated data*  
Lasso Panel on Natural Language Processing in Colorado, Lasso, 2007, Sep 22, 2007

*Data Resources for NLP*  
MINDS Panel, NAACL-07, Rochester, NY, April 24, 2007  
MINDS Meeting, Marina del Rey, CA, Feb 25, 26, 2007

*Proposition Bank*, Panel on Annotation, Meaning Workshop, Trento, Italy, Feb, 2005.  
*Proposition Bank*, Panel on Semantic Annotations, Cognitive Science Conference, Chicago, Aug 6, 2004.  
*Shake in VerbNet*, *SENSEVAL-2*, Northeastern Verb Meeting, CS Dept, U of Maryland, Oct 2, 2001.  
*English Lexical Sample Task Evaluation & What Kind of Sense Distinctions are Hardest for Systems to Make*, *SENSEVAL2*, ACL-01, Toulouse, France, July 6, 2001.  
*Semantic information for Multilingual Information Processing*, SIMPLE Workshop: From Monolingual to Multilingual resources, (LREC-00), Athens, Greece, June, 2000.  
*Word Net-Verb Net*, Panel on English Lexical Representations, SIGLEX 99 (ACL-99), College Park, Md., 1999.  
*Standards for Multilingual Lexicons*, EAGLES Workshop, Pisa, Italy, Jan 20, 1999.  
*Verb Classes as a back-off measure for PP attachments*, SPARKLE Workshop, Pisa, Italy, Jan18, 1999.  
*Chinese TreeBank*, & Panel on EAGLES: *Lexical Semantics Standardization*, ACL-98, University of Montreal, Montreal, Canada, August 15, 1998.

### Research Interests

My primary research is in the representation of semantic information and its use in natural language processing applications. The meaning of a sentence is an essential aspect of natural language understanding, yet an elusive one, since there is no accepted methodology for determining meaning. Recently I have been concentrating on developing semantic annotation processes for word sense tagging and semantic role labeling that:

- are portable across languages (English, Chinese, Korean, Arabic and Hindi),
- enable training machine learning algorithms on annotated data,
- provide a level of shallow semantic analysis that facilitates information extraction and question answering, and potentially machine translation,
- have psycholinguistic plausibility.

As the accuracy and coverage of these components improves, my aim is to embed them in information processing applications where their contribution to overall performance can be quantitatively measured. A recent focus has been shallow semantic processing of biomedical literature.

### Research Grants

#### Past Support:

#### **PI, Lynette Hirschman, Co-PI Martha Palmer**

DARPA, Integration of Syntax and Semantics	10/01/85-9/30/88	\$750,000
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<b>PI - Martha Palmer</b> NSF IRI94-12898	02/15/95-06/30/96	\$18,000
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Experimenting with Different Control Structures for Text Analysis

#### **PI Aravind Joshi, Co-PI Martha Palmer**

Battelle 1326 and TCN95009 1502	06/24/94-12/31/97	\$23,547
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An algorithm for determining noun phrase definiteness

DEC-Machine Translation using Synchronous TAG's	9/01/95-12/31/96	\$60,000
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CoGenTex (sub to DAAL01-97-C-0016)	10/29/96-6/30/97	\$30,200
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Machine Translation of Battlefield Messages - SBIR Phase I

CoGenTex (sub to DAAL01-97-M-0233)	11/01/97-4/30/98	\$30,900
Knowledge Acquisition for Software Requirements		
<b>PI - Badler, Co-PIs Palmer, Webber</b>		
Air Force through TASC and BBN	05/1/97-02/28/98	\$86,000
Automated Maintenance Instruction Study		
<b>PI Marcus, Co-PI Palmer, Baldwin, Joshi</b>		
Tipster MDA 904-96-C-1616	10/01/96-09/30/99	\$600,000
An Application of Robust Coreference to Text Summarization		
<b>PI - Palmer, admin PI - Joshi</b>		
CoGenTex (sub to F30602-97-C-0088)	05/05/97-09/30/97	\$35,000
CoGenTex (sub to DAAL01-97-C-0016, SBIR-II)	11/30/98-08/31/01	\$300,000
Korean/English Machine Translation of Battlefield Messages		
CoGenTex (sub to DAAL01-98-C-0034)	11/30/98-06/01/99	\$20,000
Translingual Information Access - SBIR Phase I		
<b>Co-PIs Palmer, Marcus, admin PI - Liberman (subtask on LDC - Cynewulf)</b>		
NSA Chinese Treebank	09/15/98-12/15/00	\$264,000
<b>PI Palmer, Co-PI Joshi, Marcus, Liberman</b>		
DARPA TIDES QuickStart	06/1/99-12/31/99	\$100,000
<b>PI Palmer</b>		
NSF US-9800658 VerbNet: Associating Semantic Features with Intersective Levin Classes	09/1/98-08/31/02	\$482,600
<b>PI Palmer, Co-PI Liberman, Metaxas</b>		
NSF ISLE International Standards for Language Engineering (joint with EU)	03/1/00-07/31/03	\$717,000
<b>PI Marcus, Co-PI Palmer</b>		
NSA: English Proposition Bank	07/01/00-09/30/02	\$509,923
<b>PI Badler, Co-PI Palmer, Joshi</b>		
NSF US-9900297 Actionary: A Dictionary of Parameterized Action Representations	09/01/99-12/31/02	\$563,340
<b>PI Palmer, Co-PI Joshi, Marcus, Liberman</b>		
DARPA TIDES Empirical Multilingual Processing - PennTools	10/15/00-12/31/04	\$3,557,500
<b>PI Badler, Co-PI Palmer, Joshi</b>		
NASA: Crew Task Simulation for Maintenance, Training and Safety	10/01/00-03/30/04	\$451,000
<b>PI Palmer, Co-PI Marcus</b>		
NSA: A Proposition Bank for Chinese	03/01/02-03/01/04	\$705,300
<b>PI Joshi, Co-PI Liberman, Palmer, etc.</b>		
NSF Discourse Penn Treebank and Multimodal FORM	10/15/02-09/30/05	\$997,782
<b>PI Palmer,</b>		
ARO – Resources for Symbolic MT with Statistical NLM Components	08/21/03-08/20/05	\$300,000
<b>PI Palmer,</b>		
CIA– Experiments with Automatic Acquisition of Semantic Representations for New Verbs	07/27/03-07/26/04	\$100,000
<b>PI Roth, Co-PI Palmer</b>		
ARDA-AQUAINT: KINDLE Knowledge and Inference via Description Logics for Natural Language	04/01/04-03/31/06	\$294,000
<b>PI Mark Liberman, Co-PI Palmer, etc.</b>		
	09/01/02-08/31/07	\$1,713,074

NSF ITR on Mining the Bibliome - Information Extraction from the Biomedical Literature Supplement for Parallel Chinese/Eng PropBank II 09/01/03-08/31/04 \$250,000  
**Co-PI Palmer, (Ralph Weischedel at BBN, PI)** 10/1/05 – 9/15/06 \$268,495  
 DARPA Arabic PropBank Pilot Project, subcontract from BBN, Inc  
**PI Palmer, RRMGS0370** 7/1/07-12/31/07 \$75,000  
 Lockheed Martin Tales of the City – Verb Classes

**Current Support:**

**PI Dan Jurafsky, Co-PI Palmer, etc.** 0325646 09/01/03-08/31/07 \$3,000,000  
 NSF ITR on Robust Semantic Parsing (subcontract for \$1,650,000)  
**PI Palmer, Co-PI Babko-Malaya** 0415923/ 0715078 12/1/04 – 11/31/07 \$500,000  
 NSF – Advancing the performance of WSD systems through more consistent criteria for sense distinctions  
**Co-PI Palmer, (Ralph Weischedel at BBN, PI)** 1544137 10/1/05 – 9/30/10 \$1,818,750  
 DARPA GALE OntoNote: Semantic Annotation for English and Chinese, subcontract from BBN, Inc  
**Co-PI Palmer, (James Pustejovsky, PI)** 0551615 4/15/06 – 4/14/08 \$180,000  
 NSF CISE-CRI Towards a Comprehensive Linguistic Annotation of Language  
**PI Palmer, Co-PI Bhuvana Narasimhan, etc.,** 0709167 05/01/08-04/30/11 \$614,000  
 NSF CISE-CRI "Collaborative: A Multi-Representational and Multi-Layered Treebank for Hindi/Urdu  
**PI Laurence Hunter,** University of Colorado School of Medicine 07/01/07-06/30/10 \$6,308  
 NIH: 1G08 OLM009639 Construction of a Full Text Corpus for Biomedical Text Mining  
**PI Laurence Hunter,** University of Colorado School of Medicine 12/01/07 – 11/30/11 \$7630  
 NIH: 1R01GM083649-01A1 Ontologies and Biomedical Language Processing,

**Pending Support**

**PI Palmer, Co-PI's Narasimhan, Michaelis, Martin** 11/01/08-10/31/11 \$604,297  
 SCIL – Automatic Identification of Social Functions Using Learning over E-mail (AISLE)  
 (subcontract from Northrop Grumman, PI Terry Patten)  
**Co-PI Palmer, (w/ Al Kim) PI Marie-Claude L'Homme,** 1/09-1/16 \$50K@yr, direct costs  
 International Opportunities Fund of the Conseil de recherches en sciences humaines du Canada (the Social Sciences and Humanities Research Council of Canada). Major Collaborative Research Initiatives  
*Knowledge, Text and Language: Different perspectives, common focus, prime: Université de Montréal*

**Teaching Experience**

**Undergraduate Courses**

University of Colorado LING 3430, Semantics 2008  
 University of Pennsylvania: Introduction to Artificial Intelligence, CSE391 2000 -2005  
 National U. of Singapore Pascal, Data Structures 1990-1991

**Graduate Courses**

Stanford University, the Summer Linguistics Institute, July  
 LSA 307 Computational Lexical Semantics 2007  
 University of Colorado  
 LING 7775 Cognitive Science Topics Course 2006-2008  
 LING 7415/25 Cognitive Science Research Practicum 2006-2008  
 LING 7800 Computational Lexical Semantics 2005, 2007  
 LING 5200 Computational Corpus Linguistics 2006  
 University of Pennsylvania  
 CIS630 Event Representations 2003

	CIS630	Information Extraction	2002
	CIS630	Computational Lexical Semantics	1999-2000
	CIS530	Computational Linguistics	1993-1994
	CIS520	Artificial Intelligence	1984
University of Delaware:		Computational Lexical Semantics	1994
National U. of Singapore:		Natural Language Processing	1992
Duke University:		Artificial Intelligence	1980
University of Edinburgh:		Natural Language Processing	1977-1979

### Research Supervision

#### **Postdoctoral Research Supervision at Penn**

Korean Postdoctoral visitors – YooJin Moon (1997), Nari Kim (1998-1999), Juntae Park (1999-2000)  
 1997-1999 Jong Park – now at KAIST  
 1999-2000 Meesook Kim – now visiting Seoul National University  
 1999-2001 Chunghye Han – now an Assistant Professor at Simon Fraser University (Linguistics)  
 2001-2003 Dan Gildea – now an Assistant Professor at Rochester University (Computer Science)  
 2003-2004 Paul Kingsbury – now at Northrop Grumman  
 2002-2005 Bert Xue – Chinese Proposition Bank  
 2003-2005 Shijong Ryu – Korean Proposition Bank

#### **Fullbright Scholar Supervision at Penn**

2002-2003 - Dafu Yang, from Xi'an Foreign Language University in Beijing.

#### **Research Associate Supervision at Penn and Colorado**

2001-2002 - Joseph Rosenzweig, now working for New York City  
 2001-2002 - Chulwoo Park, now a Research Professor at Korea University  
 2001-2003 - Chingyi Chia (deceased, July, 2003)  
 2002-2003 - Seth Kulick (now working with Mark Liberman at LDC)  
 2003 - 2005 Olga Babko-Malaya (moved to LDC, now at BAE Systems, Boston)  
 2002-2008 Meiyu Chang (since 2006 at Colorado)  
 2006-2008 Nianwen (Bert) Xue (leaving CU for a faculty position at Brandeis in December)

#### **Graduated PhD Students (National University of Singapore)**

Gan Kok Wee - *Disambiguation of Chinese Word Boundaries*, December, 1994  
 was at Hong Kong Science and Technology University,  
 Wu Zhibiao - *Fuzzy matching for accurate lexical selection*, January, 1995  
 now at PeopleSoft

#### **Graduated PhD Students (University of Pennsylvania)**

Fei Xia – (co-advised with Aravind Joshi, IBM TJ Watson Lab, now U of Washington)  
*Investigating the Relationships Between Grammars and TreeBanks for Natural Languages* (Dec, 2001)  
 William Schuler, Assistant Professor at the University of Minnesota (CS)  
*Tractable environment-based disambiguation* (2003)  
 Hoa Trang Dang, (NIST, D.C., NLP evaluations)  
*Investigations into the Role of Lexical Semantics in Word Sense Disambiguation* (Oct, 2004),



Tom Morton, ETS, then Comcast Research Group

*Using Semantic Relations To Improve Information Retrieval* (Aug, 2005),

Karin Kipper, Mayo Clinic, Minnesota (on leave)

*VerbNet: A broad-coverage, comprehensive verb lexicon* (Aug, 2005),

Susan Converse, Lockheed Martin, D.C.,

*Pronominal Anaphora Resolution in Chinese* (May, 2006),

Na-Rae Han, (co-advised with Ellen Prince), ETS, then Research Professor, Korea University

*Korean Zero Pronouns, Analysis and Resolution* (May, 2006),

Jinying Chen, BBN, Inc.

*Towards High Performance WSD by Combining ML and Rich Linguistic Features* (Sep, 2006),

Yuan Ding, Goldman Sachs

*Machine Translation Using Probabilistic Synchronous Dependency Insertion Grammars*, (Aug, 2006),

Matt Huenerfauth (co-advised with Mitch Marcus):, CS, Assistant Professor, CUNY-Queens

*Natural Language Generation and Machine Translation for American Sign Language* (Aug, 2006)

Szuting Yi – mountain climber

*Automatic Semantic Role Labeling* (May, 2007),

Edward Loper – Visiting Professor, CS, Brandeis University

*Encoding Structured Output Values*, (Dec, 2008 (defended Sep 18, 2008))

#### **Current Colorado PhD Advisees:**

Computer Science: Dmitriy Dligach (proposal defense, Dec 2008), Jinho Choi, Lee Becker

Linguistics: Susan Brown (proposal defense, May 2009), Kevin Cohen (proposal defense, May, 2009),

Jena Huang, Will Corvey

#### **PhD Thesis Committees**

Nianwen Xue, *Defining and Automatically Identifying Words in Chinese*. U of Delaware, October, 2001.

Clare Voss, *Interlingua Based Machine Translation of Spatial Expressions*, U of Maryland, April, 2002.

Sameer Pradhan, *Semantic parsing of verb and noun predicates*, U of Colorado-Boulder, April 2, 2004.

Rajen Subba, *Discourse Parsing, A Relational Learning Approach*, CS, U of Illinois at Chicago, Ill, 2008

Qin Wang, *Learning Structured Classifiers for Statistical Dependency Parsing*, CS, U of Alberta,

Edmonton, Canada, 2008

Ruifang Ge, *Learning Semantic Parsers Using Statistical Syntactic Parsing Techniques*, CS, UTexas, 2009

Andrew Dolbey, *BioFramenet*, Linguistics Dept, Berkeley, 2009

#### **University of Colorado PhD Thesis Committees:**

Computer Science: Rodney Nielsen, *Leaner Answer Assessment in Intelligent Tutoring Systems*, (2007),

Steven Bethard, *Finding Event, Temporal and Causal Structure in Text: A Machine Learning Approach*,

(2007), Ying Chen, *Unsupervised Named-entity Disambiguation with Applications to Question*

*Answering*, (2007), Sebastian de la Chica, *Scaffolding the construction of scientific explanations from*

*multiple online sources*, (2008), Qianyi Gu, *Personalized Information Seeking to Support Intentional*

*Learning*, (2009), Philip Ogren, *Parsing Coordinated Conjunctions in BioMedical Text*, (2009).

Linguistics: Masako Hoyer, *Is the Notion of ‘Subject’ in Japanese a Meaningful Concept*, (2008), Jessica

Sams, *A Syntactic Analysis of English Quotatives* (2008), Huishin Tseng, *The Use of Morphological*

*Knowledge in Chinese Natural Language Processing*, (2008)

#### **University of Pennsylvania PhD Thesis Committees:**

Diane Chi, *Animating Expressivity through Effort Elements*, September, 1998.  
 Rama Bindiganavale, *Building Parameterized Action Representations from Observations*, July 2000.  
 Anoop Sarkar, *Combining Labeled and Unlabeled Data in Statistical NLP*, Feb, 2002.  
 Christian Vogler, *American Sign Language Recognition: Reducing the Complexity of the Task with Phoneme-Based Modeling and Parallel Hidden Markov Models*, July, 2002.  
 Sooha Park Lee, *Facial animation system with realistic eye movement based on a cognitive model for virtual agents*, September, 2002.  
 Eleni Miltsakaki, *The Syntax-Discourse Interface: Effects of the Main/Subordinate Distinction on Attention Structure*, May, 2003.  
 Dan Bikel, *On the Parameter Space of Generative Lexicalized Statistical Parsing Models*, Aug, 2004  
 Craig Martell, *FORM: An Experiment in the Annotation of the Kinetics of Gesture*, Oct, 2005  
 Libin Shen, *Statistical LTAG Parsing*, May, 2006.  
 Gary Morris, *Active Error Correction for Learning Kinship Terms*, April, 2008

**MS Supervision      University of Colorado**

Derek Trumbo, CS – *Improving Lexica Resources* (SLC grant, Summer '06) Dec, 2006

**University of Pennsylvania, CS**

Hyun Seok Park - *Korean Grammar Using TAGs*, Dec, 1994

William Schuler - *Avoiding Overgeneration with Isomorphic STAGs*, Dec, 1996

**Senior Design Projects: Penn** - Alexandra Yurosky, *Women in Computing*, Spring, 2001, Benjamin Chen – *A Web-Based Multilingual Concordance Tool*, 2000-2001, Qi Cao, Philip Labo, Sharon Fong – *Verb Clustering*, 2001-2002, Hareesh Chander, Gautam Mashettiwar, Sandeep Acharya – *Automatic Sense Tagging*, 2003, Jesse Palma – *Evolving Minds*, 2003, *Meaning Constitution Analysis* David Garvett, 2004, *Chinese NE Tagging* Jia Kang, 2004.

**Professional Service Activities**

**Workshop, Tutorial and Panel Chairs:**

NSF- *Issues in Teaching Computational Linguistics* Co-Chair, at ACL-2008,  
 Columbus, OH, June 19, 20, 2008  
 NSF-*Unified Linguistic Annotation Workshop* Chair, University of Colorado, March, 18-20, 2008  
 NSF-*How to Treebank?* Co-Chair, at NAACL-07, Rochester, NY, April 26, 2007  
 Tutorials Co-Chair, 19th International Conference on Computational Linguistics,  
 COLING-02, Taipei, Taiwan, August 24 - September 1, 2002.  
 Co-Coordinator, SENSEVAL2 Workshop, ACL-01, Toulouse, France, July 5, 6, 2001,  
 Co-Chair, 4th Undergraduate Workshop on Cognitive Science and Cognitive Neuroscience.  
 University of Pennsylvania, Philadelphia, PA, June 4-22, 2001.  
 Chair, Multilingual Computational Lexicons Workshop, (ISLE), Penn, Phil, PA, Dec 11, 2000.  
 Chair, 2<sup>nd</sup> Inter'l Chinese Language Processing Workshop, Hong Kong, ACL-00, Oct, 2000.  
 Chair, SIGLEX99 Workshop on Standardizing Lexical Resources, U. of MD, June 21, 1999.  
 Local Arrangements Chair, Association for Machine Translation for the Americas Conference,  
 (AMTA-98), Langhorne, PA, Oct 28-31, 1998.  
 Panel Chair, Consistent Criteria for Sense Distinctions, *SIGLEX98-SENSEVAL*,  
 Herstmonceux, Sussex, UK., Sept 2-4, 1998.

Chair, Workshop on Chinese Language Processing, Penn, Phil., PA, June 30 – July 2, 1998.

Co-Chair, 34th Annual Meeting of the Association for Computational Linguistics, (ACL)

University of California, Santa Cruz, CA., June 23-28, 1996.

Chair of Chair, 1<sup>st</sup> IFIP Workshop: Lexical Semantics and Knowledge Rep, Penn, April, 1994.

Chair, 1<sup>st</sup> Workshop on Evaluation of NLP Systems, Wayne, PA, Dec, 1988.

Chair of Panel on Evaluation, DARPA Workshop, Mohonk, NY., May, 1988.

Tutorial Chair for Second Applied ACL Conference, Austin, TX, Feb, 1988.

### **Invited Tutorials:**

Beyond Syntax: Predicates, Arguments, Valency Frames and Linguistic Annotation

(with Jan Hajic, Manfred Pinkal and Collin Baker)

July 21, ACL-04, Barcelona, Spain.

Synchronous Tree-Adjoining Grammars, 4th Tree-Adjoining Grammar Workshop,

Aug 1-3, 1998, U. of Pennsylvania, Philadelphia, PA.

Natural Language Processing, (3 day seminar), Japan-Singapore Artificial Intelligence Center

June, 1992, Singapore

Tutorial on Message Understanding Systems, (with Lynette Hirschman and Deborah Dahl),

ACL Conference, June, 1988, Buffalo, NY Natural Language Lectures

Tutorial on NLP for U of Maryland Televised Artificial Intelligence Lectures

February, 1986, University of Maryland, College Park, MD

Tutorial on Natural Language Processing (NLP), 1<sup>st</sup> IEEE Conference on AI Applications,

Dec 1984, Denver, Colorado

### **Program Committees- International Conferences:**

The Meeting of the Association for Computational Linguistics (ACL-08),

(Also ACL-07, ACL-06 ACL-05, ACL-04, ACL-03, ACL-02, ACL-01, ACL-00, ACL-99, Coling/ACL-98, ACL-89, ACL-87, Applied NLP-94).

The International Conference on Computational Linguistics, (COLING) 2008, 2006, 2004

The Conference on Empirical Methods in NLP, EMNLP-2008, EMNLP-CONLL 2007, EMNLP-06, EMNLP-05, EMNLP-03, EMNLP02

The 5<sup>th</sup> International Language Resources and Evaluation Conf., (LREC-08), Morocco, 2008,

(Also LREC-06, LREC-04, LREC-02, LREC-00, LREC-98).

The 1<sup>st</sup> Global WordNet Conference, Mysore, India, Jan. 21-25, 2002.

The 17th International Joint Conference on Artificial Intelligence (IJCAI-2001), Seattle, Aug, 2001,

(Also American Association of AI, 2008, AAAI-00, AAAI-94, AAAI-86, Engineering track).

The North American ACL (NAACL-07), (Also NAACL-06, NAACL-04, NAACL-03,

NAACL-01, and NAACL-00/Applied Natural Language Processing-00).

The Annual Meeting of the Cognitive Science Society, COGSCI-07 & COGSCI-00..

### **- Asian Conferences:**

The International Joint Conference on Natural Language Processing, 2008, 2007, (Area Chair), 2004.

International Conference on Natural Language Processing (ICON), 2008, 2007

6<sup>th</sup> Natural Language Processing Pacific Rim Symposium, (NLPRS-2001), Tokyo, Japan, Nov, 2001.

Pacific Asia Conference on Language, Information and Computation, Singapore, Feb 1998.

Republic of China Computational Linguistics Conference, Taipei, Taiwan, August, 1997.  
Intelligent Systems Conference, Singapore, 1992.

### **-Linguistics Meetings**

Tree Adjoining Grammars (TAG+), 2008, 2006, 2004, 2002, 2000

Meaning Text Theory 2007,

Linguistic Annotation Workshop 2008, 2007 (was Frontiers of Annotation Workshop), 2006, 2005

Texas Linguistics Society Meeting, 2006, 2007

Penn Linguistics Society Meeting, 2003, 2004, 2005

Western Conference on Linguistics, 2007

### **- International Workshops:**

Human Judgments in Computational Linguistics, at Coling-08, 2008

IEEE Workshop on Spoken Language Technology, 2008,

OntoLex 2007

BIONLP 2007,

At NAACL-04, Scalable NLU ScaNaLU 2004 & Computational Lexical Semantics 2004.

6<sup>th</sup> SIGHAN Workshop, with IJCNLP 2007,

(also SIGHAN05, SIGHAN04, SIGHAN03, SIGHAN02).

SIGLEX-02 Workshop on Word Sense Disambiguation, ACL-02, Penn, July 11, 2002,

(Also SIGLEX-00, SIGLEX-99 (Chair), SIGLEX-SENSEVAL98, SIGLEX-97).

SENSEVAL-3 (ACL-04), (Also SENSEVAL2 (ACL-01), SENSEVAL1 (Brighton, 1998)).

6<sup>th</sup> International Conference on Computational Semantics, Tilburg, the Netherlands, 2007,

(Also 5<sup>th</sup> (2005), 4<sup>th</sup> (2001), 3<sup>rd</sup> (1999), 2<sup>nd</sup> (1997)).

First International Workshop on Scalable Natural Language Understanding, ScaNaLU 2002,  
Villa Bosch, Heidelberg, Germany, May 23-24 2002.

Translingual IR Workshop, Granada, Spain, June, 1998.

### **Review Panels:**

National Science Foundation, Wash. D.C., Linguistics Standing panel, 2006, 2007, 2008

Human Language Technology Review Panels: 1996, 1998, 1999, 2000, 2005

National Defense Science and Engineering Graduate Fellowship Panel, Battelle, NC, 1995.

CIS Review Committee for the Texas Higher Education Coordinating Board, Austin, 1989.

### **Journal Reviewing:**

Reviews for ACM Computing Surveys, Computational Linguistics, Artificial Intelligence,  
Computational Intelligence, Cognitive Science, Computers and the Humanities, Natural Language  
Engineering.

Guest Editor, Natural Language Engineering, 1999 & Computers and the Humanities, 2000.

Cognitive Science Journal, Editorial Board, 2000 – 2001.

### **Roles in Professional Societies:**

ISLE - International Standards for Language Engineering,

(American Coordinator for NSF, Co-Chair of Lexicon Working Group, 2000-03).

NAACL, North American Assn. for Computational Linguistics, (Board Member, 1999-2001).

AMTA - American Machine Translation Association (Board Member, 1997-99).  
Northeastern Verb Meetings - Organizer (1996 - 2002).  
IFIP Working Group on Natural Language Processing and Knowledge Rep - Vice-chair, 1994-98.  
ACL - Association for Computational Linguistics (Executive Committee Member, 1990-92).

**Membership in Professional Societies:**

ACL (Association for Computational Linguistics), SIGHAN (ACL Special Interest Group on Chinese Language Processing), SIGLEX (ACL Special Interest Group on Lexicons), SIGSEM (ACL Special Interest Group on Computational Semantics), AAAI (American Association for Artificial Intelligence), Cognitive Science Society, AMTA (American Machine Translation Association), AMTA Special Interest Group on Interlinguas.

**University Service**

**Penn:**

Director of Technology, Institute for Research in Cognitive Science, Oct 96 - Oct 98,  
Saul Gorn Memorial Lecture, 1999 – 2002, Grace Hopper Memorial Lecture, 2000 - 2002  
Co-Sponsor, CISTer's Lunches, (Women CIS/CSE students) 1999 - 2004  
Standby Committee on Graduate Student Discipline, 2001 – 2002  
Association of Women Faculty and Administrators Board Member, 2002-04  
CIS Department Office Space Committee, 2002-2004  
Cognitive Science Program Coordinator for CSE, 2004-2005

**Colorado:**

Arts and Sciences Council Grievance Committee Chair, 2007/2008  
ICS Co-Director, Center for Computational Language and Education Research (CLEAR), 2008-  
ICS Executive Committee, 2005 –  
ICS Human Language Technology Certificate Coordinator, 2005-  
ICS Hiring Committee, 2005–2006  
Linguistics Department Representative to the Arts and Sciences Council, 2005–2008  
Linguistics Department Secretary for Faculty Meetings, 2005–  
Linguistics Department Graduate Admissions Chair, 2007-  
Linguistics Department Budget Committee  
Linguistics Department Hiring Committee, Co-Chair, 2006/2007  
Linguistics Department Cognitive Science Program Coordinator

**Consulting Activities / Company Ownership:**

CEO and Founder, Palladian Solutions – 1995 – 2005.  
PARC, Inc., Palo Alto, CA, 2006  
Umbria, Inc, 2008 -

**Research Publications**

**Refereed Journal Articles (student authors underlined):**

- 1) Jinying Chen and Martha Palmer, Improving English Verb Sense Disambiguation Performance with Linguistically Motivated Features and Clear Sense Distinction Boundaries, Special Issue on SemEval2007, *Language Resources and Evaluation Journal*, Springer Netherland, in press.
- 2) Dmitriy Dligach and Martha Palmer. Word Sense Disambiguation with Automatically Retrieved Semantic Knowledge. *International Journal of Semantic Computing (IJSC)*, in press.
- 3) Nianwen Xue and Martha Palmer, Adding semantic roles to the Chinese Treebank. *Natural Language Engineering*. (in press, to appear in 2009).
- 4) Kevin Bretonnel Cohen, Martha Palmer, and Lawrence Hunter, Nominalization and alternations in biomedical language. PLoS ONE 3(9): e3158 doi:10.1371/journal.pone, p. 1-21, Sep., 2008, *peer reviewed, electronic publication*  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0003158>
- 5) Karin Kipper, Anna Korhonen, Neville Ryant, Martha Palmer, A Large-scale Classification of English Verbs, *Language Resources and Evaluation Journal*, Springer Netherland, 42(1). 21-40, 2008.
- 6) Martha Palmer, Hoa Dang and Christiane Fellbaum, Making Fine-grained and Coarse-grained sense distinctions, both manually and automatically, *Journal of Natural Language Engineering*, 13:2, 137-163, 2007.
- 7) Martha Palmer, Dan Gildea, Paul Kingsbury, *The Proposition Bank: A Corpus Annotated with Semantic Roles*, *Computational Linguistics Journal*, 31:1, pp. 71-105, 2005.
- 8) Fei Xia, Martha Palmer, Vijay-Shanker, Lexical Organization Using Partial-Tree Descriptions, *Computational Intelligence*, 21:3, 2005.
- 9) Chung-hye Han, Martha Palmer, A morphological tagger for Korean: statistical tagging combined with corpus-based morphological rule application, *Machine Translation Journal*, 18: 4, Dec, 2005.
- 10) Nianwen Xue, Fei Xia, Fu-dong Chiou, Martha Palmer, The Penn Chinese Treebank: Phrase Structure Annotation of a Large Corpus, *Natural Language Engineering*, 11(2):1-30, June, 2005.
- 11) Matthew Stone, Christine Doran, Bonnie Webber, Tonia Bleam and Martha Palmer, Microplanning with Communicative Intentions: The SPUD System, *Computational Intelligence* 19(4):1-75, November, 2003.
- 12) Chung-hye Han, Na-Rae Han, Eon-Suk Ko and Martha Palmer, Development and Evaluation of a Korean Treebank and its Application to NLP, *Language and Information*, 6:1, 123-138, Korean Society for Language and Information, 2002.
- 13) Norm Badler, Martha Palmer and Rama Bindiganavale, Animation Control for Real-Time Virtual Humans. *Communications of the ACM*, 42(8):65-73, August 1999.
- 14) Martha Palmer. Consistent Criteria for Sense Distinctions. *Computers and the Humanities*, 34: 12, 56-62, SENSEVAL98: Evaluating Word Sense Disambiguation Systems, Kluwer, 2000.
- 15) Gan Kok Wee, Martha Palmer, K. T. Lua, A Statistically Emergent Approach for Language Processing: Application to Modeling Context Effects in Ambiguous Chinese Word Boundary Perception. *Computational Linguistics* 22(4): 531-553 December, 1996.
- 16) Martha Palmer, Wu Zhibiao, Verb Semantics for English-Chinese Translation. *Machine Translation* 10: 59-92, 1995.
- 17) Martha Palmer, Carl Weir, Rebecca Passonneau, Tim Finin, The Kernel Text Understanding System. *Artificial Intelligence* 63: 17-68, Special Issue on Text Understanding, October, 1993.
- 18) Martha Palmer, Customizing Verb Definitions for Specific Semantic Domains. *Machine Translation* 5: 45-62, 1990.
- 19) Martha Palmer, Tim Finin, Sharon Walters, Evaluation of Natural Language Processing Systems. *Computational Linguistics* 16(3): 175-181, 1990.

**Journal articles under revision:**

- 20) Jinying Chen and Martha Palmer, Improving English Verb Sense Disambiguation Performance with Linguistically Motivated Features and Clear Sense Distinction Boundaries, under revision for Language Resources and Evaluation, Special issue on SEMEVAL-2007.

**Books:**

- 1) Antonio Zampolli, Nicoletta Calzolari, (Eds) and Martha Palmer (Guest Editor), *Current Trends in Computational Linguistics: In honor of Don Walker*, 595 pg, Linguistica Computazionale, Vol IX.X, Giardini editori e stampatori (Italy) and Kluwer Academic Publishers, 1994.
- 2) Martha Palmer, *Semantic Processing for Finite Domains*, 257 pp. ACL Book Series, Cambridge University Press, Cambridge, England, 1990.

**Editor of Special Journal Issues:**

- 1) Adam Kilgarriff and Martha Palmer (editors), Special Issue of *Computers and the Humanities*, SENSEVAL98:Evaluating Word Sense Disambiguation Systems, Kluwer, 34: 1-2, 2000
- 2) Martha Palmer and Marc Light (editors), Special Issue of *Natural Language Engineering* on Semantic Tagging, Cambridge University Press, 5(2), 1999

**Refereed ACL, IJCAI and AAAI Conference Papers (average acceptance rate < 25%, 3 reviews, 8 pgs):**

- 1) Susan Windisch Brown, Choosing Sense Distinctions for WSD: Psycholinguistic Evidence, *In Proceedings of the 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*. (short paper), pp. 249-252, Columbus, OH. June 15-20, 2008.
- 2) Dmitriy Dligach and Martha Palmer. Novel Semantic Features for Verb Sense Disambiguation. *In Proceedings of the 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*. (poster) pp. 29-32, Columbus, OH. June 15-20, 2008.
- 3) Szu-ting Yi, Edward Loper and Palmer, Martha, Can Semantic Roles Generalize Across Genres?, *In the Proceedings of HLT/NAACL-2007*, pp. 548-555, Rochester, NY, April 22-27, 2007.
- 4) Nianwen Xue, Jinying Chen, and Martha Palmer. Aligning Features with Sense Distinction Dimensions. *ACL-06 (poster presentation)*. Sydney, Australia, 2006.
- 5) Hovy, E.H., M. Marcus, M. Palmer, S. Pradhan, L. Ramshaw, and R. Weischedel. 2006. OntoNotes: The 90% Solution. Short paper. *Proceedings of the Human Language Technology / North American Association of Computational Linguistics conference (HLT-NAACL 2006)*. pp. 57-60, New York, NY.
- 6) Jinying Chen, Andrew Schein, Lyle Ungar and Martha Palmer. An Empirical Study of the Behavior of Active Learning for Word Sense Disambiguation. *Human Language Technology conference - North American chapter of the Association for Computational Linguistics annual meeting (HLT-NAACL) 2006*. New York City, 2006.
- 7) Jinying Chen, Martha Palmer, Towards Robust High Performance Word Sense Disambiguation of English Verbs Using Rich Linguistic Features, In the International Joint Conference for Natural Language Processing, IJCNLP-05, Jeju Island, Korea, October 11-13, 2005.
- 8) Nianwen Xue and Martha Palmer, Automatic Semantic Role Labeling for Chinese Verbs; In the *Proceedings of the International Joint Conference on Artificial Intelligence, IJCAI05*, Edinburgh, Scotland, August, 2005.
- 9) Hoa Trang Dang, Martha Palmer, The Role of Semantic Roles in Disambiguating Verb Senses, In *ACL-05*, Ann Arbor, Mich, June 26-28, 2005.

- 10) Yuan Ding, Martha Palmer, Machine Translation Using Probabilistic Synchronous Dependency Insertion Grammars, In *ACL-05*, Ann Arbor, Mich, June 26-28, 2005.
- 11) Nianwen Xue and Martha Palmer, Calibrating Features for Semantic Role Labeling, *Empirical Methods in Natural Language Processing Conference*, *ACL-04*, Barcelona, Spain, July 21-26.
- 12) Szuting Yi and Martha Palmer, Pushing the boundaries of Semantic Role Labeling with SVM, *ICON-04*, India, 2004.
- 13) Jinying Chen and Martha Palmer, Chinese Verb Sense Discrimination Using an EM Clustering Model with Rich Linguistic Features, *ACL-04*, Barcelona, Spain, July 21-26.
- 14) Dan Gildea and Martha Palmer, The Necessity of Parsing for Predicate-Argument Recognition, *The 40<sup>th</sup> Meeting of the Association for Computational Linguistics*, *ACL-02*, Philadelphia, PA, July 7-12, 2002.
- 15) Fei Xia, Chunghye Han, Martha Palmer, and Aravind Joshi, Automatically Extracting and Comparing Lexicalized Grammars for Different Languages, *Proceedings of the Seventh International Joint Conference on Artificial Intelligence*, (*IJCAI-2001*), Seattle, Washington, 2001.
- 16) Karin Kipper, Hoa Trang Dang, Martha Palmer, Class-Based Construction of a Verb Lexicon, *AAAI-2000 Seventeenth National Conference on Artificial Intelligence*, Austin TX, July 30 - August 3, 2000.
- 17) Hoa Trang Dang, Karin Kipper, Martha Palmer, Joseph Rosenzweig, Investigating regular sense extensions based on intersective Levin classes. *Coling/ACL-98*, *36th Association of Computational Linguistics Conference*, pp 293-300, Montreal CA, August 11-17, 1998.
- 18) Wu Zhibiao, Martha Palmer, Verb Semantics and Lexical Selection, In *Proceedings of the 32nd Annual Meeting of the Association for Computational Linguistics*, pp.133-139, New Mexico State University, July 1994.
- 19) Rebecca Passonneau, Carl Weir, Tim Finin and Martha Palmer, Integrating Natural Language Processing and Knowledge Based Processing: Demand Driven Reasoning for Document Analysis, *Proceedings of the 1991 National Conference on Artificial Intelligence (AAAI-91)*, 6pg, Boston, August, 1991.
- 20) Deborah Dahl, Martha Palmer, and Rebecca Passonneau, Nominalizations in PUNDIT. In the *Proceedings of the 25th Annual Meeting of the Association for Computational Linguistics*, 6pg,, Stanford University, Stanford, CA, July 1987.
- 21) Martha Palmer, Deborah Dahl, Rebecca [Schiffman] Passonneau, Lynette Hirschman. Marcia Linebarger, John Dowding. Recovering implicit information, In the *Proceedings of the Sixth Annual Meeting of the Association for Computational Linguistics*, 6pg, Columbia University, New York, August 1986.
- 22) Martha Palmer, Inference-driven semantic analysis. In *Proceedings of the American Association for Artificial Conference*, 6pg, AAAI-83, Washington, D.C., August 1983.
- 23) Jim Weiner and Martha Palmer. The design of a system for designing knowledge representation systems. In *Proceedings of IJCAI-81*, 6pg, Vancouver, 1981.
- 24) Martha Palmer, A case for rule-driven semantic analysis. In *Proceedings of the 10th Annual Meeting of the Association for Computational Linguistics*, 6pg, Stanford, CA. June 1981.

**Refereed Conference and Workshop Papers (typically 8 pages, peer reviewed):**

- 1) Les Sikos, Susan Brown, Albert Kim, and Martha Palmer, Laura Michaelis, Lexical Coercion: “Meaning” is often more than just a sum of the parts, In the *Proceedings of the AAAI 2008 Fall Symposium on Biologically Inspired Cognitive Architectures*, Washington, DC., Nov, 2008.



- 2) Dmitriy Dligach and Martha Palmer. Improving Verb Sense Disambiguation with Automatically Retrieved Semantic Knowledge. In Proceedings of Second IEEE International Conference on Semantic Computing (ICSC). Santa Clara, CA. August 4-7, 2008.
- 3) Rodney D. Nielsen, Wayne Ward, James H. Martin and Martha Palmer, Annotating Students' Understanding of Science Concepts, In the *Proceedings of LREC-08*, Marrakesh, Morocco, May, 2008.
- 4) Sameer Pradhan, Eduard Hovy, Mitch Marcus, Martha Palmer, Lance Ramshaw and Ralph Weischedel, OntoNotes: A Unified Relational Semantic Representation, *First IEEE International Conference on Semantic Computing Proceedings*, Irvine, CA, Sep 17-19, 2007. *Best Paper Award*.
- 5) Jinying Chen, Dmitriy Dligach and Martha Palmer, Towards Large-scale High-Performance English Verb Sense Disambiguation by Using Linguistically Motivated Features, *First IEEE International Conference on Semantic Computing Proceedings*, Irvine, CA, Sep 17-19, 2007.
- 6) Susan Windisch Brown, Cecily Jill Duffield, Jena D. Hwang, Dmitriy Dligach, Sarah E. Vieweg, Jenny Davis, Martha Palmer, The Role of Functional Nouns in Manual Grouping of Verb Senses, *In the Poster Session of Concept Types and Frames in Language, Cognition, and Science*, Düsseldorf, Germany, August 20-22, 2007.
- 7) Cecily Jill Duffield; Jena D. Hwang; Susan Windisch Brown; Dmitriy Dligach; Sarah E. Vieweg; Jenny Davis; Martha Palmer, Criteria for Manual Clustering of Verb Senses, In the *Poster Session for the 29<sup>th</sup> Meeting of the Cognitive Science Society*, Nashville, TN, Aug 1-4, 2007.
- 8) Sameer Pradhan; Edward Loper; Dmitriy Dligach; Martha Palmer SemEval-2007 Task-17: English Lexical Sample, SRL and All Words, In the *Proceedings of the Fourth International Workshop on Semantic Evaluations (SemEval-2007)*, held in conjunction with ACL-2007, Prague, the Czech Republic, June, 2007.
- 9) Mona Diab; Musa Alkhalifa; Sabry ElKateb; Christiane Fellbaum; Aous Mansouri; Martha Palmer, SemEval-2007 Task 18: Arabic Semantic Labeling, In the *Proceedings of the Fourth International Workshop on Semantic Evaluations (SemEval-2007)*, held in conjunction with ACL-2007, Prague, the Czech Republic, June, 2007.
- 10) Cecily Jill Duffield; Jena D. Hwang; Susan Windisch Brown; Dmitriy Dligach; Sarah E. Vieweg; Jenny Davis; Martha Palmer, Criteria for the Manual Grouping of Verb Senses, In the *Proceedings of the Linguistic Annotation Workshop* held in conjunction with ACL-2007, Prague, the Czech Republic, June, 2007.
- 11) Vicky Tzuyin Lai, Meiyu Chang, Cecily Jill Duffield, Jena D. Hwang, Nianwen Xue, & Martha Palmer, Defining a Methodology for Mapping Chinese & English Sense Inventories, *Chinese Lexical Semantics Workshop 2007*, Hong Kong, May 21-23, 2007
- 12) Steven Bethard, Rodney Nielsen, James H. Martin, Wayne Ward, and Martha Palmer. Semantic integration in learning from text. In AAI Spring Symposium on Machine Reading, 2007.
- 13) Edward Loper, Szu-ting Yi and Martha Palmer. (2007) Combining Lexical Resources: Mapping Between PropBank and VerbNet, In the *Proceedings of the 7th International Workshop on Computational Semantics*, Tilburg, the Netherlands.
- 14) Karin Kipper, Anna Korhonen, Neville Ryant, and Martha Palmer. Extensive Classifications of English verbs. In the *Proceedings of the 12th EURALEX International Congress*. Turin, Italy. September, 2006.

- 15) Yuan Ding and Martha Palmer, Better Learning and Decoding for Syntax Based SMT Using PSDIG, *7th biennial conference of the Association for Machine Translation in the Americas (AMTA-2006)*, Boston, Mass, August, 2006.
- 16) Olga Babko-Malaya; Ann Bies; Ann Taylor; Szuting Yi; Martha Palmer; Mitch Marcus; Seth Kulick; Libin Shen, Issues in Synchronizing the English Treebank and PropBank. *In the Proceedings of the Workshop on Frontiers in Linguistically Annotated Corpora 2006, at ACL06*, Sydney, Australia, July, 2006.
- 17) Karin Kipper, Anna Korhonen, Neville Ryant and Martha Palmer, Extending VerbNet with Novel Verb Classes, *Proceedings of the Fifth International Conference on Language Resources and Evaluation -- LREC'06*, May, 2006, Genoa, Italy.
- 18) Jinying Chen and Martha Palmer. Clustering-based Feature Selection for Verb Sense Disambiguation. *In Proceedings of 2005 IEEE International Conference on Natural Language Processing and Knowledge Engineering, IEEE NLP-KE 2005*, pp. 36-41. Oct. 30- Nov. 1, Wuhan, China, 2005.
- 19) Martha Palmer, Nianwen Xue, Olga Babko-Malaya, Jinying Chen, Benjamin Snyder, A Parallel Proposition Bank II for Chinese and English, *Frontiers in Corpus Annotation, Workshop in conjunction with ACL-05*, Ann Arbor, Mich, June 29, 2005.
- 20) James Pustejovsky, Adam Meyers, Martha Palmer and Massimo Poesio, Merging PropBank, NomBank, TimeBank, Penn Discourse Treebank and Coreference, *Frontiers in Corpus Annotation, Workshop in conjunction with ACL-05*, Ann Arbor, Mich, June 29, 2005.
- 21) Yuan Ding and Martha Palmer, Automatic Learning of Parallel Dependency Treelet Pairs, The First International Joint Conference on Natural Language Processing (IJCNLP-04), Hainan, China, Oct. '04.
- 22) Yuan Ding and Martha Palmer, Synchronous Dependency Insertion Grammars: A Grammar Formalism for Syntax Based Statistical MT, Workshop on Recent Advances in Dependency Grammars, The 20th International Conference on Computational Linguistics (COLING 2004), Geneva, Switzerland, Aug 28, 2004.
- 23) Nianwen Xue and Martha Palmer, Annotating the Propositions in the Penn Chinese Treebank, Second SIGHAN Workshop on Chinese Language Processing, held in conjunction with ACL-03, pp. 47-54, Sapporo, Japan, July, 21-26, 2004.
- 24) Olga Babko-Malaya, Martha Palmer, Nianwen Xue, Aravind Joshi, Seth Kulick, Proposition Bank II: Delving Deeper, *Frontiers in Corpus Annotation, Workshop in conjunction with HLT/NAACL 2004*, Boston, MASS, May 6, 2004.
- 25) Karin Kipper, Benjamin Snyder, Martha Palmer, Using Prepositions to Extend a Verb Lexicon, *Computational Lexical Semantics, Workshop in conjunction with HLT/NAACL 2004*, Boston, MASS, May 6, 2004.
- 26) Martha Palmer, Olga Babko-Malaya, Hoang Trang Dang, Different Sense Granularities for Different Applications, *2<sup>nd</sup> Workshop on Scalable Natural Language Understanding Systems, at HLT/NAACL-04*, Boston, MASS, May 6, 2004.
- 27) Karin Kipper, Ben Snyder, Martha Palmer, Extending a verb-lexicon using a semantically annotated corpus, *In the Proceedings of the 4<sup>th</sup> International Conference on Language Resources and Evaluation (LREC-04)*, Lisbon, Portugal, May, 2004.
- 28) Yuan Ding and Martha Palmer, Automatic Learning of Parallel Dependency Treelet Pairs, *In the Proceedings of the First International Joint Conference on Natural Language Processing, IJCNLP-04*, Hainan Island, China, March 22-24, 2004.
- 29) Jinying Chen, Nianwen Xue, Martha Palmer, Using a Smoothing Maximum Entropy Model for Chinese Nominal Entity Tagging, *In the Poster Session Proceedings of the First International*

- Joint Conference on Natural Language Processing, IJCNLP-04*, Hainan Island, China, March 22-24, 2004.
- 30) Paul Kingsbury and Martha Palmer, PropBank: The Next Level of TreeBank, *The Second Workshop on Treebanks and Linguistic Theories (TLT 2003)*, Växjö, Sweden, Nov, 2003.
  - 31) Yuan Ding, Daniel Gildea and Martha Palmer, An Algorithm for Word-level Alignment of Parallel Dependency Trees, *The 9th Machine Translation Summit of International Association of Machine Translation*, New Orleans, October, 2003.
  - 32) Paul Kingsbury, Benjamin Snyder, Nianwen Xue, Martha Palmer, PropBank as a Bootstrap for Richer Annotation Schemes, *The 6<sup>th</sup> Workshop on Interlinguas: Annotations and Translations*, in conjunction with *MT Summit 2003*, New Orleans, Louisiana, 9 pgs, 2003.
  - 33) Benjamin Snyder and Martha Palmer, The English all-words task, *Proceedings of Senseval-3: The Third International Workshop on the Evaluation of Systems for the Semantic Analysis of Text, ACL2004*, Barcelona, Spain, July 21-26, 2004.
  - 34) Seth Kulick, Mark Liberman, Martha Palmer, and Andrew Schein. Shallow Semantic Annotation of Biomedical Corpora for Information Extraction. *Proceedings of the 2003 ISMB Special Interest Group Meeting on Text Mining (a.k.a. BioLink)*, Brisbane, Australia, June 27, 2003.
  - 35) Paul Kingsbury, Martha Palmer, Mitch Marcus, Adding Predicate Argument Structure to the Penn TreeBank, *The Second International Human Language Technology Conference, HLT-02*, San Diego, CA, March 24-27, 2002.
  - 36) Paul Kingsbury, Martha Palmer, From TreeBank to PropBank, *Third International Conference on Language Resources and Evaluation, LREC-02*, Las Palmas, Canary Islands, Spain, May 28-June 3, 2002.
  - 37) Chung-hye Han, Na-rae Han, Eon-suk Ko, Martha Palmer, Korean Treebank: Development and Evaluation, *The Third International Conference on Language Resources and Evaluation, LREC-02*, Las Palmas, Canary Islands, Spain, May 28- June 3, 2002.
  - 38) Jan Allbeck, Karin Kipper, Charles Adams, William Schuler, Elena Zoubanova, Norman Badler, Martha Palmer, Aravind Joshi. ACUMEN: Amplifying Control and Understanding of Multiple Entities. *AAMAS-2002, The First International Joint Conference on Autonomous Agents and Multi-Agent Systems*. Bologna, Italy, July 15-19, 2002.
  - 39) Hoa Trang Dang and Martha Palmer, Combining Contextual Features for Word Sense Disambiguation, *SIGLEX Workshop on Word Sense Disambiguation, in conjunction with the 40<sup>th</sup> Meeting of the Association for Computational Linguistics, ACL-02*, Philadelphia, PA, July 7-12, 2002.
  - 40) Nianwen Xue, Fu-dong Chiou, Martha Palmer, Building a Large-Scale Chinese Corpus, *the 19th International Conference on Computational Linguistics, COLING-02*, Taipei, Taiwan, August 24 -- September 1, 2002.
  - 41) Hoa Trang Dang, Chingyi Chia, Fu-dong Chiou, Martha Palmer, Simple Features for Chinese Word Sense Disambiguation, *The 19th International Conference on Computational Linguistics, COLING-02*, Taipei, Taiwan, August 24 -- September 1, 2002.
  - 42) Scott Cotton, Phil Edmonds, Adam Kilgarriff, and Martha Palmer, ed. 2001. SENSEVAL-2: Second International Workshop on Evaluating Word Sense Disambiguation Systems. SIGLEX Workshop, ACL03, Toulouse, France, July, 2001.
  - 43) Christiane Fellbaum, Martha Palmer, Hoa Trang Dang, Lauren Delfs, Susanne Wolf. Manual and Automatic Semantic Annotation with WordNet, *SIGLEX Workshop on WordNet and other Lexical Resources (NAACL-01)*, Invited Talk, Pittsburgh. PA, June 2, 3, 2001.

- 44) Martha Palmer, Joseph Rosenzweig and Scott Cotton, Automatic Predicate Argument Analysis of the Penn TreeBank, *Proceedings of HLT 2001, First International Conference on Human Language Technology Research*, 5pp., J. Allan, ed., Morgan Kaufmann, San Francisco, 2001.
- 45) Fei Xia and Martha Palmer, Converting Dependency Structures to Phrase Structures, *Proceedings of HLT 2001, First International Conference on Human Language Technology Research*, J. Allan, ed., Morgan Kaufmann, San Francisco, 2001.
- 46) Fu-Dong Chiou, David Chiang, and Martha Palmer, Facilitating Treebank Annotation Using a Statistical Parser, *Proceedings of HLT 2001, First International Conference on Human Language Technology Research*, 4 pp., J. Allan, ed., Morgan Kaufmann, San Francisco, 2001, pp. 117-123.
- 47) Martha Palmer, Ralph Grishman, Nicoletta Calzolari, Antonio Zampolli, Standardizing Multilingual Lexicons, *ISLE: Web-Based Language Documentation and Description*, Philadelphia USA, 12-15 December 2000.
- 48) Chung-hye Han, Benoit Lavoie, Martha Palmer, Owen Rambow, Richard Kittredge, Tanya Korelsky, Nari Kim and Myunghee Kim, Handling Structural Divergences and Recovering Dropped Arguments in a Korean/English Machine Translation System *Proceedings of the Association for Machine Translation in the Americas 2000*, Published in Lecture Notes in AI series of Springer-Verlag, October 10-14. 2000.
- 49) Rama Bindiganavale, William Schuler, Jan Allbeck, Norm Badler, Aravind Joshi, Martha Palmer, Dynamically altering agent behaviors using natural language instructions. In the *Proceedings of Autonomous Agents 2000*, August, 2000.
- 50) Hoa Trang Dang, Karin Kipper, Martha Palmer, Integrating compositional semantics into a verb lexicon. *COLING-2000 Eighteenth International Conference on Computational Linguistics*, Saarbrücken GERMANY, July 31- August 4, 2000.
- 51) Martha Palmer, Invited Presentation, Semantic information for Multilingual Information Processing. *SIMPLE Workshop: From Monolingual to Multilingual resources*, (LREC-00), Athens, Greece, June 3rd, 2000 (not reviewed)
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### **Research Grant Related Presentations – Fall 1997 – 2008**

OntoNotes: English and Arabic PropBanks and Verb Senses

DARPA BANKS Workshop, BBN, Cambridge, MASS, May 12, 2008

PropBanks and Verb Senses – OntoNotes Working Session

Darpa-GALE PI Meeting, Tampa, Florida, April 8, 2008

Propbank and WSD status

OntoNotes and Eventive Nouns

Unified Linguistic Annotation Workshop, University of Colorado, March 18, 19, 2008

PropBank Unified Linguistic Annotation Workshop, Brandeis University, Feb 13, 2007

Word Sense Disambiguation, DARPA-GALE PI Meeting, SRI, Sep 22, 2005

Proposition Bank - ACE PI Meeting, Hilton, VA, Oct 22-24, 2003, TIDES PI Meeting, NY, Aug 5-7, 2003, ACE PI Meeting, Inn and Conference Center, College Park, MD, Sep 26, 2002, DARPA-TIDES Meeting, Santa Monica, CA, July, 2002, ACE PI Meeting, Fairfield Inn, Beltsville, MD, Feb 25-27, 2002, ACE 6-months Meeting, NYC, May 9, 2001, ACE Pilot Study Wrap-up Meeting, U. of MD, May 22, 2000, ACE Meeting, BBN, Cambridge, Mass, Feb 25, 2000.

Proposition Bank and Korean Resources – ARL Kickoff Meeting, University of Maryland, Oct 10, 2003.

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