

## 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** Fall 2005-now  
Professor, Linguistics, Computer Science, Institute of Cognitive Science – Fall 2009 - now  
Associate Professor: Institute of Cognitive Science Faculty, – 2005-Spring 2009  
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

**Awards:** The 2010 Boulder Faculty Assembly Research Award - The Boulder Faculty Assembly represents the faculty on the University of Colorado Boulder Campus. It presents up to four faculty awards annually in each of three areas teaching, research and service.

**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, 2007-20010

### Invited Presentations (1997-2009):

*Semlink: Linking PropBank, VerbNet and FrameNet*

Keynote Address, 8<sup>th</sup> International Conference on the Generative Lexicon, (GenLex09)  
Pisa, Italy, September 17-19, 2009

*Knowing a Word(sense) by the company it keeps*

Keynote Address, Unsupervised and minimally supervised learning of lexical semantics Workshop  
NAACL-09, Boulder, CO, June 5, 2009

*Knowing a Word(sense) by the company it keeps*

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 data.

### 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
<b>PI - Martha Palmer</b> NSF IRI94-12898	02/15/95-06/30/96	\$18,000
Experimenting with Different Control Structures for Text Analysis		
<b>PI Aravind Joshi, Co-PI Martha Palmer</b>		
Battelle 1326 and TCN95009 1502	06/24/94-12/31/97	\$23,547
An algorithm for determining noun phrase definiteness		
DEC-Machine Translation using Synchronous TAG's	9/01/95-12/31/96	\$60,000
CoGenTex (sub to DAAL01-97-C-0016)	10/29/96-6/30/97	\$30,200
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>	09/1/98-08/31/02	\$482,600
NSF US-9800658 VerbNet: Associating Semantic Features with Intersective Levin Classes		
<b>PI Palmer, Co-PI Liberman, Metaxas</b>	03/1/00-07/31/03	\$717,000
NSF ISLE International Standards for Language Engineering (joint with EU)		
<b>PI Marcus, Co-PI Palmer</b>	07/01/00-09/30/02	\$509,923
NSA: English Proposition Bank		
<b>PI Badler, Co-PI Palmer, Joshi</b>	09/01/99-12/31/02	\$563,340
NSF US-9900297 Actionary: A Dictionary of Parameterized Action Representations		
<b>PI Palmer, Co-PI Joshi, Marcus, Liberman</b>	10/15/00-12/31/04	\$3,557,500
DARPA TIDES Empirical Multilingual Processing - PennTools		
<b>PI Badler, Co-PI Palmer, Joshi</b>	10/01/00-03/30/04	\$451,000
NASA: Crew Task Simulation for Maintenance, Training and Safety		
<b>PI Palmer, Co-PI Marcus</b>	03/01/02-03/01/04	\$705,300

NSA: A Proposition Bank for Chinese

<b>PI Joshi, Co-PI Liberman, Palmer, etc.</b>	10/15/02-09/30/05	\$997,782
NSF Discourse Penn Treebank and Multimodal FORM		
<b>PI Palmer,</b>	08/21/03-08/20/05	\$300,000
ARO – Resources for Symbolic MT with Statistical NLM Components		
<b>PI Palmer,</b>	07/27/03-07/26/04	\$100,000
CIA– Experiments with Automatic Acquisition of Semantic Representations for New Verbs		
<b>PI Roth, Co-PI Palmer</b>	04/01/04-03/31/06	\$294,000
ARDA-AQUAINT: KINDLE Knowledge and Inference via Description Logics for Natural Language		
<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
<b>Co-PI Palmer, (Ralph Weischedel at BBN, PI)</b>	10/1/05 – 9/15/06	\$268,495
DARPA Arabic PropBank Pilot Project, subcontract from BBN, Inc		
<b>PI Palmer, RRMGS0370</b>	7/1/07-12/31/07	\$75,000
Lockheed Martin Tales of the City – Verb Classes		
<b>PI Dan Jurafsky, Co-PI Palmer, etc.</b> 0325646	09/01/03-08/31/07	\$3,000,000
NSF ITR on Domain Independent Semantic Parsing (subcontract for \$1,650,000)		
<b>Co-PI Palmer, (James Pustejovsky, PI)</b> 0551615	4/15/06 – 4/14/08	\$180,000
NSF CISE-CRI Towards a Comprehensive Linguistic Annotation of Language		

#### Current Support:

<b>PI Palmer, Co-PI Babko-Malaya</b> 0415923/ 0715078	12/1/04 – 11/31/07	\$500,000
NSF – Advancing the performance of WSD systems through more consistent criteria for sense distinctions		
<b>Co-PI Palmer, (Ralph Weischedel at BBN, PI)</b> 1544137	10/1/05 – 9/30/10	\$1,818,750
DARPA GALE OntoNote: Semantic Annotation for English and Chinese, subcontract from BBN, Inc		
<b>PI Palmer, Co-PI Bhuvana Narasimhan, etc.,</b> 0709167	05/01/08-04/30/11	\$614,000
NSF CISE-CRI "Collaborative: A Multi-Representational and Multi-Layered Treebank for Hindi/Urdu		
<b>PI Laurence Hunter,</b> 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		
<b>PI Laurence Hunter,</b> University of Colorado School of Medicine	12/01/07 – 11/30/11	\$7,630
NIH: 1R01GM083649-01A1 Ontologies and Biomedical Language Processing,		
<b>PI: Palen, Co-PIs Mark, Anderson, Sicker, Martin</b>	09/01/09 – 08/31/13	\$2,503,141
NSF: HCC: 08-575, Large: Collaborative Research: Widescale Computer-Mediated Communication in Crisis Response: Roles, Trust & Accuracy in the Social Distribution of Information.		
<b>PI: Palmer, Co-PI's Martin, Gildea, Knight, McKeown, Xue</b>	09/01/09 – 08/31/13	\$578,609
NSF: RI: Large: Collaborative Research: Richer Representations for Machine Translation.		
<b>PI: Savova, Co-PI Martin, Palmer, Ward</b>	09/01/09 – 08/31/11	\$500,000
NIH: A Multi-source clinical Question Answering system		

#### Pending Support:

<b>PI: Savova, Co-PI Palmer, Martin, Ward</b>	07/01/10 – 06/30/14	\$1,536,450
NIH: Temporal Relation Discovery for Clinical Text.		

#### Teaching Experience

### **Undergraduate Courses**

University of Colorado	LING 3005 Introduction to Cognitive Science	2009
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 - now an Assistant CS Professor, Brandeis U.
- 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 now an Assistant CS Professor, Brandeis U.

#### **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, Ling)

*Investigating the Relationships Between Grammars and TreeBanks for Natural Languages* (Dec, 2001)

William Schuler, Associate Professor at Ohio State University, Ling (previously U of Minn, 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, now Comcast Research Group

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

Karin Kipper, was at Mayo Clinic, Minnesota, recently moved to Ohio

*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, now Pitt

*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, now BBN, Inc.

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

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

Dmitriy Dligach, CU Postdoctoral Fellow,

*High-performance Word Sense Disambiguation with Less Manual Effort* (Aug, 2010),

Susan Brown, CU Postdoctoral Fellow

*Finding Meaning: Sense Inventories for improved Word Sense Disambiguation*, (April, 2010),

Kevin Cohen, Research Scientist, University of Colorado Health Sciences, Denver

*Software testing as field methods: descriptive linguistics and natural language processing* (March, 2010),

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

Computer Science:), Jinho Choi, Lee Becker, Shumin Wu

Linguistics: Jena Huang, Will Corvey, Claire Bonial

### **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  
Tobias Hawker, *Large Scale Resources for Word Sense Disambiguation*,  
CS, University of Sydney, 2010

### **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), Kiril  
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), Kirill Kireyev, *Applications of  
Distributional Vector Space Models to Modeling of Psycholinguistic Phenomena* (2009),

KIRILL KIREYEV

### **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, AAI-00, AAI-94, AAI-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, 2009  
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:**

Saul Gorn Memorial Lecture Coordinator, 1999 – 2002,

Grace Hopper Memorial Lecture Coordinator, 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  
Arts and Sciences Council Grievance Committee 2005-  
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, 2007-2008  
Linguistics Department Graduate Admissions Committee, 2009, 2011  
Linguistics Department Budget Committee, 2007-  
Linguistics Department Hiring Committee, Co-Chair, 2006/2007  
Linguistics Department Cognitive Science Program Coordinator, 2005-

**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*, 43:181–208, Springer Netherland, 2009.
- 2) Dmitriy Dligach and Martha Palmer. Word Sense Disambiguation with Automatically Retrieved Semantic Knowledge. *International Journal of Semantic Computing (IJSC)*, 2:3, pp. 365-380, 2008.
- 3) Nianwen Xue and Martha Palmer, Adding semantic roles to the Chinese Treebank. *Natural Language Engineering*, 15(1):143-172, 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, Hoang 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) Sameer Pradhan, Eduard Hovy, Mitch Marcus, Martha Palmer, Lance Ramshaw, Ralph Weischedel, OntoNotes: A Unified Relational Semantic Representation, *International Journal of Semantic Computing*, Vol. 1, No. 4, pp. 405-419, 2007.
- 8) Martha Palmer, Dan Gildea, Paul Kingsbury, *The Proposition Bank: A Corpus Annotated with Semantic Roles*, *Computational Linguistics Journal*, 31:1, pp. 71-105, 2005.
- 9) Fei Xia, Martha Palmer, Vijay-Shanker, Lexical Organization Using Partial-Tree Descriptions, *Computational Intelligence*, 21:3, 2005.
- 10) Chunghye Han, Martha Palmer, A morphological tagger for Korean: statistical tagging combined with corpus-based morphological rule application, *Machine Translation Journal*, 18: 4, Dec, 2005.
- 11) 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.
- 12) Matthew Stone, Christine Doran, Bonnie Webber, Tonia Blear and Martha Palmer, Microplanning with Communicative Intentions: The SPUD System, *Computational Intelligence* 19(4):1-75, November, 2003.
- 13) 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.
- 14) Norm Badler, Martha Palmer and Rama Bindiganavale, Animation Control for Real-Time Virtual Humans. *Communications of the ACM*, 42(8):65-73, August 1999.
- 15) Martha Palmer. Consistent Criteria for Sense Distinctions. *Computers and the Humanities*, 34: 12, 56-62, SENSEVAL98: Evaluating Word Sense Disambiguation Systems, Kluwer, 2000.
- 16) 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.
- 17) Martha Palmer, Wu Zhibiao, Verb Semantics for English-Chinese Translation. *Machine Translation* 10: 59-92, 1995.
- 18) 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.
- 19) Martha Palmer, Customizing Verb Definitions for Specific Semantic Domains. *Machine Translation* 5: 45-62, 1990.
- 20) Martha Palmer, Tim Finin, Evaluation of Natural Language Processing Systems. *Computational Linguistics* 16(3): 175-181, 1990.

**Books:**

- 1) Martha Palmer, Daniel Gildea, Nianwen Xue, *Semantic Role Labeling*, Synthesis Lectures on Human Language Technology Series, ed. Graeme Hirst, Mogan & Claypoole, ISBN: 9781598298321, 2010.
- 2) 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.
- 3) 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) Hoang 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) Jena D. Hwang, Archana Bhatia, Clare Bonial, Aous Mansouri, Ashwini Vaidya, Nianwen Xue, and Martha Palmer. PropBank Annotation of Multilingual Light Verb Constructions. In the *Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2010*. Uppsala, Sweden, July 15-16, 2010.
- 2) Dmitriy Dligach, Rodney Nielsen and Martha Palmer, To Annotate More Accurately or to Annotate More, In the *Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2010*. Uppsala, Sweden, July 15-16, 2010.
- 3) Jinho Choi and Martha Palmer, Retrieving Correct Semantic Boundaries in Dependency Structure, In the *Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2010*. Uppsala, Sweden, July 15-16, 2010.
- 4) Michael Bada, Miriam Eckert, Martha Palmer and Lawrence Hunter, An Overview of the CRAFT Concept Annotation Guidelines, In the *Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2010*. Uppsala, Sweden, July 15-16, 2010.
- 5) Wajdi Zaghواني, Mona Diab, Aous Mansouri, Sameer Pradhan and Martha Palmer The Revised Arabic PropBank, In the *Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2010*. Uppsala, Sweden, July 15-16, 2010.
- 6) Josef Ruppenhofer, Caroline Sporleder, Roser Morante, Collin Baker and Martha Palmer, SemEval-2010 Task 10: Linking Events and Their Participants in Discourse, In the

- Proceedings of the 5th International Workshop on Semantic Evaluation, Semeval-10, held in conjunction with ACL-2010, Uppsala, Sweden, July 15-16, 2010.*
- 7) Jena D. Hwang, Rodney D. Nielsen and Marth Palmer. Towards a Domain Independent Semantics: Enhancing Semantic Representation with Construction Grammar, In *the Proceedings of Extracting and Using Constructions in Computational Linguistic Workshop held in conjunction with NAACL HLT 2010*, LA, CA, June 6, 2010.
  - 8) Jinho D. Choi, Claire Bonial, and Martha Palmer, Multilingual Propbank Annotation Tools: Cornerstone and Jubilee, In the *Proceedings of NAACL-HLT'10: Demos*, pp. 13-16, Los Angeles, CA, June, 2010
  - 9) K. Bretonnel Cohen, Arrick Lanfranchi, William Corvey, William A. Baumgartner Jr., Christophe Roeder, Philip V. Ogren, Martha Palmer, Lawrence E. Hunter, Annotation of all coreference in biomedical text: Guideline selection and adaptation, In the *Proceedings of the 2nd Workshop on Building and evaluating resources for biomedical text mining (BioTxtM2010)*, held in conjunction with the LREC 2010 conference., Valetta, Malta, May 17, 2010.
  - 10) Archana Bhatia, Rajesh Bhatt, Bhuvana Narasimhan, Martha Palmer, Owen Rambow, Dipti Misra Sharma, Michael Tepper, Ashwini Vaidya, Fei Xia, Empty Categories in a Hindi Treebank, In the Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC'10), Valletta, Malta,
  - 11) Jinho D. Choi, Claire Bonial, and Martha Palmer. Propbank Instance Annotation Guidelines Using a Dedicated Editor, Jubilee. In Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC'10), Valletta, Malta
  - 12) *Jinho D. Choi, Claire Bonial*, and Martha Palmer. Propbank Frameset Annotation Guidelines Using a Dedicated Editor, Cornerstone. In Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC'10), Valletta, Malta
  - 13) Susan Brown, Travis Rood, Martha Palmer, Number or Nuance: Which factors restrict reliable word sense annotation, In Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC'10), Valletta, Malta
  - 14) Martha Palmer, Rajesh Bhatt, Bhuvana Narasimhan, Owen Rambow, Dipti Misra Sharma, Fei Xia, Hindi Syntax: Annotating Dependency, Lexical Predicate-Argument Structure, and Phrase Structure, In the Proceedings of the 7th International Conference on Natural Language Processing, ICON-2009, Hyderabad, India, Dec 14-17, 2009.
  - 15) Guergana Savova, Steven Bethard, Will Styler, James H. Martin, Martha Palmer, James Masanz, and Wayne Ward. Towards temporal relation discovery from the clinical narrative. In *American Medical Informatics Association*, 2009.
  - 16) Martha Palmer, Semlink: Linking PropBank, VerbNet and FrameNet, *In the Proceedings of the Generative Lexicon Conference, GenLex-09*, September, 2009, Pisa, Italy.
  - 17) Rajesh Bhatt; Bhuvana Narasimhan; Martha Palmer; Owen Rambow; Dipti Sharma; Fei Xia, A Multi-Representational and Multi-Layered Treebank for Hindi/Urdu, *In the Proceedings of the Third Linguistic Annotation Workshop, held in conjunction with ACL-IJCNLP 2009, Singapore*, August, 2009.
  - 18) Jinho D. Choi, Martha Palmer and Nianwen Xue. 2009. Using Parallel PropBanks to enhance Word-alignments, Linguistic Annotation Workshop, at ACL-IJCNLP, Singapore.
  - 19) Dmitriy Dligach & Martha Palmer (2009), Using language modeling to select useful annotation data, *In Proceedings of the Student Research Workshop, Held in Conjunction with NAACL-HLT 2009*, Boulder, CO.

- 20) Martha Palmer, Jena D. Hwang, Susan Windisch Brown, Karin Kipper Schuler and Arrick Lanfranchi, Leveraging lexical resources for the detection of event relations, *In the Proceedings of the AAAI 2009 Spring Symposium on Learning by Reading*, Stanford, CA, March 23-25, 2009.
- 21) Fei Xia, Rajesh Bhatt, Owen Rambow, Martha Palmer and Dipti Misra Sharma, Towards a multi-representational Treebank, *In the Proceedings of The 7th International Workshop on Treebanks and Linguistic Theories, TLT-7, in conjunction with the 19th Meeting of Computational Linguistics in the Netherlands*, Groningen, the Netherlands, Jan 23-24, 2009.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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*.
- 26) 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.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) 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

- 33) Steven Bethard, Rodney Nielsen, James H. Martin, Wayne Ward, and Martha Palmer. Semantic integration in learning from text. In AAAI Spring Symposium on Machine Reading, 2007.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.
- 38) 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.
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**Research Grant Related Presentations – Fall 1997 – 2008**

OntoNotes: English and Arabic PropBanks and Verb Senses

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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

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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.

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