

Curriculum Vitae

Massimiliano Ciaramita

Personal

- Name: Massimiliano Ciaramita
- Born: March 18 1968, Roma, Italy
- Citizenship: Italy
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Current Position

- Researcher at the Laboratory for Applied Ontology (LOA), Institute of Cognitive Science and Technology, Italian National Research Council (ISTC-CNR), from October 2004. Via Nomentana 56, 00161 Roma, Italy.
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Education

- May 2005: Brown University, Ph.D., (Computational) Linguistics. Thesis title “Broad-Coverage Hierarchical Word Sense Disambiguation”, committee: Mark Johnson (Advisor), Eugene Charniak, Thomas Hofmann.
- May 2003: Brown University, Sc.M., Computer Science (machine learning). Advisor: Thomas Hofmann.
- April 1997: Università di Roma “La Sapienza”, B.A., magna cum laude, Philosophy (Mathematical logic models for syntactic parsing).

Research Interests

- Statistical Natural Language Processing, broad-coverage semantic classification, information extraction, information retrieval, knowledge discovery, bioinformatics.

- Machine Learning, methods for learning in structured domains, e.g., taxonomies and ontologies, sequence learning. Learning in the presence of labeled, partially labeled and unlabeled training data. Graphical models.
- Artificial Intelligence, Information Theory, Probability and Statistics, Pattern Theory. Image Processing.

Publications

- M. Ciaramita, M. Baroni. 2006. "A Figure of Merit for the Evaluation of Web-Corpus Randomness". To appear in Proceedings of the 11th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2006)
- M. Ciaramita and Y. Altun, 2005. "Named-Entity Recognition in Novel Domains with External Lexical Knowledge". In Advances in Structured Learning for Text and Speech Processing Workshop (NIPS 2005).
- M. Ciaramita and M. Baroni, 2005. "Measuring Web-Corpus Randomness: A progress Report". In M. Baroni and S. Bernardini (eds.) WaCky! Working Papers on the Web as Corpus. Gedit, Bologna.
- M. Ciaramita, S. Sloman, M. Johnson, E. Upfal. 2005. "Hierarchical Preferences in a Broad-Coverage Lexical Taxonomy". In Proceedings of the XXVII Annual Conference of the Cognitive Science Society (CogSci 2005)
- M. Ciaramita, A. Gangemi, Ratsch E., Saric, J. and Rojas I. "Unsupervised Learning of Semantic Relations between Concepts of a Molecular Biology Ontology". In Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI 2005).
- M. Ciaramita and M. Johnson. 2004. Multi-Component Word Sense Disambiguation. In Proceedings of the Third International Workshop on the Evaluation of Systems for the Semantic Analysis of Text (Senseval 3/ACL 2004).
- T. Hofmann, L. Cai and M. Ciaramita. 2003. Learning with Taxonomies: Classifying Documents and Words. In Proceedings of the Workshop on Syntax. Semantics and Statistics (NIPS 2003).
- M. Ciaramita and M. Johnson. 2003. Supersense Tagging of Unknown Nouns in WordNet. In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2003).
- M. Ciaramita, T. Hofmann and M. Johnson. 2003. Hierarchical Semantic Classification: Word Sense Disambiguation with World Knowledge. In Proceedings of the 18th International Joint Conference on Artificial Intelligence (IJCAI 2003).
- M. Ciaramita. 2002. Boosting Automatic Lexical Acquisition with Morphological Information. In Proceedings of the Workshop on Unsupervised Lexical Acquisition (SIGLEX/ACL 2002).

- M. Ciaramita and M. Johnson. 2000. Explaining Away Ambiguity: Learning Verb Selectional Preference with Bayesian Networks. In Proceedings of the 18th International Conference on Computational Linguistics (COLING 2000).

Invited Talks

- "Unsupervised acquisition of semantic relations from text: A case study in molecular biology": Turing Center, University of Washington, Seattle, February" 2006.
- "Apprendimento Automatico di Ontologie da Corpus Testuali": Scuola Normale Superiore, Pisa, April 2005.
- "Large-Scale Semantic Tagging": AT&T Labs-Research, Florham Park, NJ, June 2004
- "Basic-Level Classes Recognition in a Broad-Coverage Ontology": UMass Boston, April 2004.
- "Large-Scale Word Sense Disambiguation": Università di Roma "Tor Vergata": March 2004.
- "Intermediate Levels for Semantic Tagging": ISTC-CNR, Rome, March 2004.
- "Statistical Learning of Selectional Preferences": IBM T.J. Watson Research Center, New York, October 2000.

Teaching and Research

- Teaching Certificate Program, The Harriet W. Sheridan Center for Teaching and Learning, Brown University. Certificate awarded May 2001.
- IGERT (National Science Foundation Integrative Graduate Education and Research Traineeship) Research Mentor for undergraduate research assistants, 2000.
- Teaching Assistant, Department of Cognitive and Linguistic Sciences, Brown University:
 - Language and the Mind, Professor Jim Morgan, 2003
 - Introduction to Linguistic Theory, Professor Mark Johnson, 2000/2002.
 - Neural Modeling Laboratory, Professor Jim Anderson, 2001.
- Research Assistant to Mark Johnson: from Summer 1999 to Summer 2004.

Other Professional Experiences

- Design of the proposal for the architecture of the future search engine of the Italian National Research Council, project approved. 2005.
- Journal Reviewer: Artificial Intelligence Journal, Computational Linguistics.
- Reviewer, Program/Scientific Committee member: Senseval-3 (ACL-2004), LREC 2006, 2nd Web as Corpus Workshop (EACL-2006), 2nd Workshop on Ontology Learning and Population (Coling/ACL 2006).
- Invited Panelist at the "Student Research Workshop - Annual Meeting of the Association for Computational Linguistics", July 2003 (ACL-03).
- Evaluation and benchmarking of a Silicon Graphics (SGI) 64-bit Altix machine for memory-intensive computations. June-September 2004.

Fellowships and Awards

- Harnish Dissertation Fellowship, Brown University, September, 2003 - May, 2004.
- University Fellowship, Brown University, September, 1998 - May, 1999.

Other professional activities

- Department of Cognitive and Linguistic Sciences, Brown University:
 - Graduate student representative to faculty meetings, 1999-2000.
 - Organizer, summer film series, 2000.
- Member of the Association for Computational Linguistics, the Cognitive Science Society, the American Association for Artificial Intelligence.
- IGERT affiliate 1999 - 2004.
- Member of the Brown Laboratory for Linguistic Information Processing (BLLIP) and of the Information Retrieval and Machine Learning Group at Brown (IRML), 1999-2004.

Professional skills

- Programming: C/C++, Matlab, Perl, Prolog.
- Formatting: Latex, HTML, XML.
- Spoken languages: Italian, English, French.