Scott Martin

Ph.D. Candidate
Department of Linguistics
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Education

Degrees

Ph.D. in Linguistics, Ohio State University, 2012 (expected). Thesis titled *The Dynamics of Projective Meaning*. Committee: Carl Pollard (co-advisor), Craige Roberts (co-advisor), and Michael White.

M.A. in Linguistics, Ohio State University, 2011.

B.A. *cum laude* in French and Philosophy, Florida State University, 1995.

Certifications

Certificate of French Language (literary level), Institut Catholique de Paris, 1995.

Certificate of French Language (written level 3), Institut Catholique de Paris, 1992.

Industry Experience

Founder and Principal Technical Architect, Coffeeblack. Cambridge, Massachusetts and Columbus, Ohio, 1999–2007. Clients: Broadvision, Boston Realty Hub, Cohn Godley Norwood, Grace Construction Products, Hampton-Brown, Metaglue, Oberon, Resource Interactive, Sermo, The Limited, Victoria's Secret.

Lead Developer, Six Red Marbles. Cambridge, Massachusetts, 2001–2002. Clients: Holt, Reinhart, and Winston, Houghton-Mifflin.

Senior Interface Developer, Razorfish. Cambridge, Massachusetts, 1999–2001. Clients: Estée Lauder, Highmark, Manulife.

Research Positions

Graduate Research Associate, Ohio State University Department of Linguistics. National Science Foundation grant *Learning to Generate High Quality Paraphrases with a Broad Coverage Lexicalized Grammar* (Michael White, Principal Investigator). Summer quarter 2008, Spring quarter 2009, Winter and Spring quarters 2010, Spring and Summer quarters 2011.

Graduate Research Associate, Ohio State University Department of Linguistics. Autumn 2006 quarter, Winter and Spring 2007 quarters. Development of OpenCCG, an open source parser and realizer for Combinatory Categorial Grammar.

Awards and Fellowships

David Dowty Travel Award, Ohio State University Department of Linguistics, 2011–2012.

Targeted Investment in Excellence (TIE) Fellowship, Ohio State University Department of Linguistics, 2008–2009.

MITX Award, *Education* category (for my work with Six Red Marbles on Hampton-Brown's *Avenues* lesson planner), Massachusetts Innovation and Technology Exchange, 2004.

Winthrop-King Scholarship (to attend the Institut Catholique de Paris), Department of Modern Languages and Linguistics, Florida State University, 1995.

Outstanding Undergraduate Student Award, Department of Modern Languages and Linguistics, Florida State University, 1994–1995.

Florida Academic Scholarship (to attend Florida State University), 1991–1995.

Memberships

Association for Computational Linguistics, since 2005.

Phi Beta Kappa, Alpha of Florida chapter, since 1995.

Publications

Journal Article

Scott Martin and Carl Pollard. A higher-order theory of presupposition. *Studia Logica*, in press. To appear in a special issue on logic and natural language.

In Peer-Reviewed Proceedings

Scott Martin. Weak familiarity and anaphoric accessibility in dynamic semantics. In *Proceedings of the 16th Conference on Formal Grammar*, Lecture Notes in Computer Science, in press.

Scott Martin and Carl Pollard. Hyperintensional dynamic semantics: Analyzing definiteness with enriched contexts. In *Proceedings of the 15th Conference on Formal Grammar*, Lecture Notes in Computer Science, in press.

Scott Martin and Michael White. Creating disjunctive logical forms from aligned sentences for grammar-based paraphrase generation. In *Proceedings of the Workshop on Monolingual Text-to-text Generation*, 2011.

Scott Martin, Rajakrishnan Rajkumar, and Michael White. Grammar engineering for CCG using Ant and XSLT. In *Proceedings of the Workshop on Software Engineering, Testing, and Quality Assurance for Natural Language Processing*, 2009.

D.J. Hovermale and Scott Martin. Developing an annotation scheme for English language learner spelling errors. In *Proceedings of the 5th Midwest Computational Linguistics Colloquium*, 2008.

Scott Martin. A proof-theoretic approach to French pronominal clitics. In *Proceedings of the 13th European Summer School in Logic, Language and Information Student Session*, 2008.

Michael White, Rajakrishnan Rajkumar, and Scott Martin. Towards broad coverage surface realization with CCG. In *Proceedings of the Workshop on Using Corpora for Natural Language Generation: Language Generation and Machine Translation*, 2007.

Presentations

Invited Talk

(With Carl Pollard.) *Enriching Contexts for Type-Theoretic Dynamics*. CAuLD Workshop on Logical Methods for Discourse, hosted by INRIA (the French National Research Institute on Informatics and Computation). Nancy, France, December 14, 2009.

Conference Presentations not in Proceedings

A Higher-Order Theory of Presupposition. Semantics Workshop of the American Midwest and Prairies, hosted by the University of Michigan Department of Linguistics. Ann Arbor, Michigan, November 13, 2010.

Other Talks

Using Semantic Dependencies to Improve Paraphrase Alignment. Clippers (computational linguistics discussion group), Ohio State University. November 6, 2009.

Introduction to Subversion. Tutorial talk hosted by the Library and Computing Committee, Ohio State University Department of Linguistics. May 14, 2007.

Asynchronous Javascript and XML (AJAX) Overview. Tutorial talk, Clippers, Ohio State University. January 7, 2007.

Teaching

Graduate

Linguistics 680: Formal Foundations of Linguistics. (Assistant to Prof. Carl Pollard.) Foundational course on the mathematical tools used in linguistic theory. Ohio State University, Autumn 2009, Autumn 2010, and Autumn 2011 quarters.

Linguistics 602.01: Syntax 1. (Assistant to Prof. Robert Levine.) Overview of syntactic theory and description based on Head-driven Phrase Structure Grammar. Ohio State University, Autumn 2011 quarter.

Undergraduate

Linguistics 384: Language and Computers. Broad-based overview of topics in computational linguistics. Ohio State University, Autumn 2007, Winter 2008 and Spring 2008 quarters.

Linguistics 280: Language and Formal Reasoning. Truth-conditional meaning in natural language and its interaction with deductive reasoning. Ohio State University, Summer 2010, Winter 2011 and 2012 quarters.

Linguistics 201: Introduction to Language in the Humanities. Survey course in general linguistics. Ohio State University, Autumn 2008 quarter.

Secondary

Assistant Lecteur d'Anglais (Assistant Lecturer in English), Lycée Jean Jaurès and Collège Paul Eluard. Reims, France, 1996–1997. Spoken and written English comprehension for non-native speakers.

Skills

Languages Spoken

English (native), French (fluent), German (basic knowledge).

Operating Systems

Linux (Debian, Fedora, Ubuntu), Microsoft Windows.

Programming and Data Representation

Bash scripting (advanced), Haskell (beginner), Java (expert), SQL (advanced), XML (expert), XSLT (expert).

Software

Ant, CVS, Eclipse IDE, JUnit, OpenCCG, SRI Language Modeling Toolkit (SRILM), Subversion, Toolkit for Advanced Discriminative Modeling (TADM), Vi(m).

Typesetting and Web

Asynchronous Javascript and XML (AJAX, expert), CSS (expert), LaTeX and BibTeX (expert), Javascript (expert), (X)HTML (expert).

Software Projects

Funnel

Google's Web 1T 5-gram corpus contains so much data that it is difficult for the average machine to handle. This open source tool provides a simple way for users of the corpus to create subsets of it based on custom criteria, such as a limited vocabulary.

GtkSourceView

This library provides syntax highlighting support for GNOME text editing applications such as gedit.

OpenCCG

Parsing and generation are two central aspects of many applications that do natural language processing (NLP). OpenCCG is a suite of NLP tools based on the CCG formalism that provides both broad coverage parsing and generation and deep analysis such as semantic dependency modeling.

PEP

PEP is an Earley Parser (PEP) is a free software implementation of Earley's chart-parsing algorithm for context-free languages. This parser not only recognizes and assigns structure to strings based on a given context-free grammar, it also preserves its internal chart and derived parse trees as artifacts. It has been used on several independent research projects, including two Masters' theses.