

Lucas Champollion

Department of Linguistics
619 Williams Hall
University of Pennsylvania
Philadelphia, PA 19104-6305

Phone: (215) 898-6046

Fax: (215) 573-2091

Website: <http://www.ling.upenn.edu/~champoll>

E-mail: champoll@ling.upenn.edu

Palo Alto Research Center
NLTT/ISL

3333 Coyote Hill Road
Palo Alto, CA 94304

Phone: (650) 812-4912

Fax: (650) 812-4374

SPECIALIZATION Model-theoretic semantics; formal pragmatics; formal language theory; natural language understanding

RESEARCH Aspect, distributivity, plurality, measure constructions, quantification

INTERESTS Game-theoretic and decision-theoretic approaches to pragmatics

Underspecified semantic representations

Lexicalized Tree-adjoining Grammar (LTAG) and its variants

Dependency parsing

EDUCATION **Exchange Scholar**, 2009–present
Stanford University, Department of Linguistics

Ph.D., Linguistics, 2010 (expected)

Advisor: Dr. Cleo Condoravdi (Palo Alto Research Center / Stanford University)

Committee chair: Dr. Aravind K. Joshi (University of Pennsylvania)

Dissertation topic: Distributivity in *for*-adverbials and measure constructions

University of Pennsylvania

Master of Science in Engineering, Computer and Information Science, 2007

Advisor: Dr. Mitchell P. Marcus (University of Pennsylvania)

University of Pennsylvania

Zwischenprüfung zum Magister (comparable to B.A.), 2003

Subjects: English, Computer Science, Computational Linguistics

Albert-Ludwigs-Universität Freiburg, Germany

GRANTS, AWARDS 2009 – 2010: Dissertation Completion Fellowship, University of Pennsylvania

AND HONORS 2007: NAACL/ACL Fellowship for the Linguistic Institute of the Linguistic Society of America

2006 and 2007: University of Pennsylvania SAS technology grants for development of the Penn Lambda Calculator (with Maribel Romero and Josh Tauberer)

2005: LSA Fellowship for the Linguistic Institute of the Linguistic Society of America

2005 – 2009: Benjamin Franklin Fellowship, University of Pennsylvania

2004: German Academic Exchange Service (DAAD) one-year exchange scholarship (University of Pennsylvania)

2004: Admission to the *Studienstiftung des deutschen Volkes* (German National Academic Foundation), Germany's largest sponsor of intellectually outstanding students (admission rate: 0.7% of German student population)

REFEREED
PUBLICATIONS

Libin Shen, Lucas Champollion, and Aravind K. Joshi (2008), "LTAG-Spinal and the Treebank: A new resource for incremental, dependency and semantic parsing," *Language Resources and Evaluation*, 42(1):1-19.

CONFERENCE
PROCEEDINGS
(REFEREED
ABSTRACTS)

Lucas Champollion (2009). "Cumulative readings of *every* do not provide evidence for events and thematic roles." To appear in the Proceedings of the 19th Amsterdam Colloquium, December 16-18, 2009.

Lucas Champollion (2009). "A unified account of distributivity, *for*-adverbials, and measure constructions." To appear in the Proceedings of the 14th Sinn und Bedeutung conference, Vienna, September 28-30, 2009.

Lucas Champollion (2008), "Binding theory in LTAG," *Proceedings of the Ninth International Workshop on Tree Adjoining Grammar and related formalisms (TAG+9)*, Tübingen, Germany.

Lucas Champollion (2007), "Lexicalized non-local MCTAG with dominance links is NP-complete," *Proceedings of Mathematics of Language 10*, UCLA, ed. by Gerald Penn and Ed Stabler, CSLI On-Line Publications.

Lucas Champollion, Prashanth Mannem, and Livio Robaldo (2007), "Bidirectional dependency parsing trained on the Turin University Treebank," *Proceedings of the EVALITA 2007 Workshop*, Rome, Italy, September 10th, 2007, special issue of *Intelligenza Artificiale*, volume IV(2), pages 48-49

OTHER
PRESENTATIONS
(REFEREED
ABSTRACTS)

Lucas Champollion and Uli Sauerland (2009). "An inverse linking account of nested definites." Presentation at the 14th Sinn und Bedeutung conference, Vienna, September 28-30, 2009. Also presented at the Colloque de Syntaxe et Sémantique à Paris (CSSP, September 23-25, 2009) under the title "Move and accommodate: A solution to Haddock's Puzzle."

Lucas Champollion (2009). "*for*-adverbials quantify over subintervals, not subevents." Presentation at the CHRONOS 9 international conference on tense, aspect and modality, Paris, September 2-4, 2009.

Lucas Champollion (2008), "The influence of goals on ambiguities in certain donkey sentences." *Fourth Formal Semantics in Moscow workshop (FSIM 4)*, April 5-6, 2008, Moscow, Russia

Lucas Champollion (2006), "On the (ir)relevance of psycholinguistics for anaphora resolution." *Workshop on Ambiguity in Anaphora*, ESSLLI 2006, Málaga, Spain

NONREFEREED CONTRIBUTIONS Lucas Champollion (2009). “Davidsonian events and thematic roles: are they necessary? A reply to Kratzer and Schein.” Invited presentation at the workshop on Language, Communication and Rational Agency, Stanford, May 30-31, 2009.

Lucas Champollion, Joshua Tauberer, and Maribel Romero (2007), “The Penn Lambda Calculator: Pedagogical software for natural language semantics,” *Proceedings of the Grammar Engineering across Frameworks (GEAF) 2007 Workshop*, Stanford, CA, ed. by Tracy Holloway King and Emily M. Bender, CSLI On-Line Publications.

INVITED TALKS “A unified account of nominal distributivity, *for*-adverbials, and measure phrases.” Stanford University, April 2009

TEACHING EXPERIENCE Spring 2007 and Spring 2008: Teaching assistant to Prof. Mitchell P. Marcus
Introduction to Natural Language Processing (graduate level)
Department of Computer and Information Science, University of Pennsylvania

Fall 2005: Teaching assistant to Prof. Maribel Romero
Introduction to Formal Linguistics (undergraduate level)
Department of Linguistics, University of Pennsylvania

RESEARCH EXPERIENCE Since Fall 2008: Visiting Researcher at Palo Alto Research Center (PARC)
Natural Language Theory and Technology Group

Working on my dissertation with support from PARC (advisor: Cleo Condoravdi).

Summer 2008 and Summer 2009: Intern at Palo Alto Research Center (PARC)
Natural Language Theory and Technology Group

Designed and implemented a module for semantic interpretation of aspect and Aktionsart in English. Integrated it into PARC’s natural language processing pipeline, with special attention to interaction with existing semantic modules for tense, spatial reasoning and veridicality. Helped develop a benchmarking tool for evaluating the identification of temporal relations across sentences. Helped prepare the integration of an external theorem prover into the semantic pipeline.

2007 – 2008: Participant in the SUBTLE grant (Penn/UMass)
Principal investigator: Mitch Marcus; project URL: <http://www.subtlebot.org>

This project is constructing a tractable natural language understanding system for a habitable subset of English, including a formal representation of the implicit meaning of utterances and the generation of control programs for a robot platform.

Fall 2006: Research assistant to Prof. Aravind K. Joshi
Department of Linguistics, University of Pennsylvania

Designed and implemented an application programming interface to a treebank based on a variant of Tree-adjointing Grammar. Performed preliminary research towards developing a semantic

role labeling system based on this treebank.

Spring 2006: Research assistant to Prof. Anthony Kroch
Department of Linguistics, University of Pennsylvania

Performed preliminary research towards building a part-of-speech-tagged and parsed corpus of Middle French. Work included building a supervised machine-learning system to convert Middle French spelling to Modern French and assessing the state of the art of stemmers and morphological analyzers for Modern French.

2004 – 2008: Participant in the XTAG research group at Penn
Led by Aravind K. Joshi. URL: <http://www.cis.upenn.edu/~xtag>

The XTAG group conducts research in formal language theory and natural language syntax and semantics based on the formalism of lexicalized Tree-Adjoining Grammar (TAG) and its variants.

2003 – 2004: Studentische Hilfskraft (research assistant) to Prof. Christian Mair
English Department, Albert-Ludwigs-Universität Freiburg

Hand-checked the output of an automatic part-of-speech tagger on English text and provided technical support for software equipment.

2002 – 2004: Studentische Hilfskraft (research assistant) to Prof. Udo Hahn
Computational Linguistics Research Group, Albert-Ludwigs-Universität Freiburg

Designed and developed various text preprocessing tools for the local NLP pipeline, such as a rule-based recognizer/parser of measure phrases in medical texts. Designed graphical user interfaces for the groups programs. Hand-annotated medical texts with part-of-speech tags.

PROFESSIONAL
SERVICE

2004 – 2006: Helped organize the *Penn Linguistics Colloquium*, an international conference

UNIVERSITY
SERVICE

2007 – 2008: Co-represented the School of Arts and Sciences to the University of Pennsylvania's *Graduate and Professional Student Assembly* (GAPSA).

2006 – 2007: Co-represented the Department of Linguistics to the University of Pennsylvania's *Graduate Student Associations Council* (GSAC). Helped organize a major organizational reform of graduate student government at Penn.

SOFTWARE
DEVELOPMENT

2006 – 2008: LTAG-spinal API

Designed and implemented an application programming interface to a novel treebank. The API is coded in Java and provides a detailed object model of the treebank annotation, as well as a visualization routine via Graphviz export. See <http://www.cis.upenn.edu/~xtag/spinal/#api>.

2006 – 2007: Penn Lambda Calculator

Helped design and implement an interactive, graphical, pedagogical software application that helps students of formal semantics practice the typed lambda calculus. This application has been successfully used in introductory semantics courses around the world, including at the University of Pennsylvania and at the 2007 LSA institute. See <http://www.ling.upenn.edu/lambda>.

LANGUAGE
PROFICIENCY

German (native speaker)
French (native speaker)
English (fluent)
Italian (moderate)

PROFESSIONAL
AFFILIATIONS

Linguistic Society of America
Gesellschaft für Semantik