

CURRICULUM VITAE

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Amy Weinberg
Associate Professor

Linguistics Department
Institute for Advanced Computer Studies
University of Maryland
College Park, MD 20742
Office Phone: (301) 405-4934/6748
Email: weinberg@umiacs.umd.edu
URL: <http://www.umiacs.umd.edu/~weinberg/>

I. Personal Information:

Date of Birth: 03 June 1955
Place: Boston, MA
Married, 1 child

II. Professional History:

August 1992 Associate Professor in Linguistics/UMIACS

1987 – 1992 Assistant Professor Linguistics Department (50%
appointment) and Institute for Advanced Computer
Studies (50% appointment)

1984-1987 Lecturer, Linguistics Department University of MD

III. Education:

1988 PhD. MIT Dept of Linguistics and Philosophy

1976 BA 1st Class Joint Honours. McGill University
Department of Linguistics and Philosophy

IV. Publications:

a. Books:

- The Grammatical Basis of Linguistic Performance. MIT Press (with R. Berwick), 1984.

b. Invited Chapters in Books (refereed):

- "Modularity in the Syntactic Processor," in Jay Garfield, ed. *Modularity in Knowledge Representation and Natural Language Understanding*. MIT Press, pp. 259-276, 1987.
- "Psychological Theory and Linguistic Explanation Attention and Performance," 1986, (refereed) pp. 673-687, 1987.
- "Comments on the Maturation of Syntax," in *Parameter Setting* E. Williams & T. Roeper, eds, Reidel, pp. 173-188, 1987.
- "Mathematical Properties of Grammars," in *Linguistics: The Cambridge Survey*, edited by F. Newmeyer, Cambridge University Press, pp. 416-429, 1988.
- "Logical Form- Its Existence and its Properties," in (refereed) *Annali di Ca Foscari* pp. 143-156, Foris, (with N. Hornstein), 1988.
- "Child Grammars - Radically Different, or More of the Same," in J. Devilliers & L. Frazier. Language Processing & Language Acquisition. Reidel, (refereed), pp. 299-313, 1990.
- Comment on Ken Wexler in Lightfoot and Hornstein ed., Verb Movement, Cambridge, UK pp. 351-362, 1994.
- "Parameters in Sentence Processing: The Case of Japanese," in Mazuka, R. and N. Nagai eds., Japanese Sentence Processing, Erlbaum, 1995.
- "On the ECP," (with N. Hornstein), in G. Webelhuth, ed. Government and Binding Theory, Basil Blackwell, pp. 100-145, 1995.
- "Principle-Based parsing in Foreign Language Tutoring," (with J. Garman and J. Martin), in Melissa Holland, Jonathan Kaplan & Michelle Sams eds., Intelligent Language Tutors: Balancing Theory and Technology, 1995.
- "Acquiring Grammatical Aspect Via Lexical Aspect: The Continuity Hypothesis Cognitive Science Society 1998 (with M. Olsen, J. Lilly, and J. Drury). Proceedings of the Cognitive Science Society, pp. XX, 1988.
- "A Minimalist Theory of Human Sentence Processing" in S. Epstein and N. Hornstein eds. Working Minimalism, MIT Press, pp. 20-88, 1999.
- "Acquiring Grammatical aspect via lexical Aspect: The Continuity Hypothesis," (with Mari Olsen), UMLWP, pp. 132-151, 2000.
- "Semantics in the Spin Cycle," in S. Stevenson and P. Merlo, eds., Lexical Representation and Sentence Processing, Amsterdam. John Benjamins Publishing Company, 2002.

- “Processing of Japanese *Wh*-scrambling Constructions,” (with Sachiko Aoshima and Colin Phillips, William McClure), ed., Japanese Korean Linguistics, 12, Stanford: CSLI (to appear) 2003. [pdf](#) (294k)

c. Articles and Conference Proceedings: (all refereed)

- "Case Theory and Preposition Stranding," (with N. Hornstein), Linguistic Inquiry, 12.1, pp. 55-92 1981.
- "Parsing Efficiency, Computational Complexity, and the Evaluation of Grammatical Theories," (with R. Berwick), Linguistic Inquiry, 13.2, pp. 165-192, 1982.
- "The Role of Grammars in Models of Language Use," (with R. Berwick), Cognition, 13, pp. 1-66 1983.
- "Reply to Garnham," (with R. Berwick), Cognition, pp. 271-276, 1983.
- "The Psychological Relevance of transformational Grammar: A Reply to Stabler," Cognition, 19, pp. 193-204, 1984.
- "Deterministic Parsing and Linguistic Explanation," (with R. Berwick), Language and Cognitive Processes, 1.3, pp. 109-134, 1985.
- "Two Types of Locality," (with J. Aoun, N. Hornstein, and D. Lightfoot), Linguistic Inquiry, 18.4, pp. 537-577, 1987.
- "The Necessity of LF," (with N. Hornstein), The Linguistic Review pp. 129-167, 1990.
- "Markedness or Maturation: The Case of Subject Auxiliary Inversion". Language Acquisition 1.2 pp. 165-194, 1991.
- "Parameters in the Theory of Sentence Processing: Minimal Commitment Theory goes East in Journal of Psycholinguistic Research," Vol. 22, No. 3 pp. 339-364, 1992.
- "Principle based Parsing for Foreign Language Training In German and Arabic" (with Garman, Joseph, J, Martin, P, Merlo), Proceedings of the 3rd ANLP Conference, 1993.
- "From Syntactic Encodings to Thematic Roles: Building Lexical Entries for Interlingual MT," (with Dorr, BJ, Garman, J.), Machine Translation, 9.3 pp. 70-110, 1996.
- "Innateness and the Acquisition of Grammatical Aspect by Lexical Aspect" Proceedings of the Boston University Conference on Language Acquisition cascadilla press, (with M. Olsen), 1998.
- "Acquiring Grammatical Aspect Via Lexical Aspect: The Continuity Hypothesis Cognitive Science Society 1998 (with M. Olsen, J. Lilly, and J. Drury). Proceedings of the Cognitive Science Society, pp. 312-316, 1998.
- "Using lexical Information to Guide Machine translation," (with Mari Olsen, Carol van Ess Dykema, and David Traum ANLP Conference on natural language, 1998.

- Implicit Cues for Explicit Generation: Using telicity as a Cue for tense Structure in a Chinese to English MT System," (with Mari Olsen, David Traum, Carol van Ess-Dykema), Proceedings of the MT-Summit VIII, 8pgs, 2001.
- "Evaluating Translational Correspondence using Annotation Projection," 40th Anniversary Meeting of the Association for Computational Linguistics (ACL-02), Philadelphia, (with Rebecca Hwa, Philip Resnik, and Okan Kolak), July, 2002. [pdf](#) (172k)
- "Breaking The Resource Bottleneck For Multilingual Parsing", (with Rebecca Hwa and Philip Resnik), *Workshop on Linguistic Knowledge Acquisition and Representation: Bootstrapping Annotated Language Data*, Third International Conference on Language Resources and Evaluation (LREC-2002), Las Palmas, Canary Islands, Spain, June 1, 2002. [ppt](#) (130k), LAMP-TR-086 [pdf](#)
- "Online Satisfaction of Lexical Requirements Determines the Time Course of Gap," (with Sachiko Aoshima and Colin Phillips), *Proceedings of WCCFL 22*, 2003. [ppt](#) (526k)
- "A processing Account of Locality effects in Ellipsis" (with Elixabete Murguia and Juan Uriagereka), 2003.
- "On-line Computation of two types of Structural relations in Japanese" CUNY Conference. MIT, 2003. [ppt](#) (459k)
- "Processing Filler-Gap Dependencies in a Head-Final Language," (with Sachiko Aoshima, Colin Phillips), & Amy Weinberg. January 2003. Manuscript submitted for publication. 54pp. [pdf](#) (630k).

d. Book Reviews:

- "Review of Barriers by Noam Chomsky". *Language*, (with D. Lightfoot) pp.366-384, 1988.

e. Refereed Conference Proceedings:

- "Subjacency and Efficient Parsability." *Proceedings of the 21st Meeting of the ACL*. MIT Cambridge, MA, pp.119-122, (with R. Berwick), 1984.
- "Deterministic Parsing: A Modern View." *Proceedings of the Northeast Linguistics Society*, pp.15-29, 1984.
- "Superiority and Generalised Binding." *Proceedings of the Northeast Linguistics Society*. pp. 311-326, 1987.

V. Invited Talks and Workshops:

- "Preposition Stranding and Theories of Grammar and Parsing". Presented at "Generative Linguists of the Old World Meeting", Nijmegen, Holland, 1981.
- Participant UC Irvine Sloan Workshop on Language Learnability, 1981.

- "Government, Case, and Reanalysis Rules". Presented at U. Penn. Linguistics Colloquium, 1982.
- "The Acquisition of the Passive Construction," presented at Generative Linguists of the Old World Conference. Gottingen, 1982.
- "Four Lectures on Lectures on Government and Binding," University of Pennsylvania Psychology Department, 1982.
- "Hardwired Instantiations of Grammars: A reply to Stabler". Presented at the Society of Philosophy and Psychology. University of Western Ontario, 1982.
- "Subjacency and the Theory of LR(k) Parsing." Sloan Workshop. McGill University. (with R. Berwick), 1982.
- "Parsing Efficiency and Grammatical Constraints" West Coast Conference on Formal Linguistics. USC (with R. Berwick), 1983.
- "Deterministic Parsing and the Theory of Grammar", IBM Workshop. New York City, 1983.
- "A Semantic Basis for Language Acquisition?" MIT Cognitive Science Seminar (with R. Berwick), 1983.
- "Overgeneralisation in Language Acquisition." Georgetown Language Acquisition Forum, 1983.
- "Parsing and Theories of Grammar: The Case of Parasitic Gaps" Paper presented at Northeast Linguistics Society, Providence R.I., 1984.
- "On Choosing Processing Algorithms for Natural Language," Princeton Cognitive Science Seminar, 1984.
- "Modularity & the Syntactic Processor" Conference on Modularity at Hampshire College, 1985.
- "Epithets and the Theory of Logical Form" New York University Dept. of Linguistics. Invited lecture, 1986.
- "Computer Modeling & Linguistic Theory" Navy Center for Applied Research in Artificial Intelligence, 1986.
- "Psychological Theory and Linguistic Explanation". Great Windsor Park, UK - Attention and Performance XII, 1986.
- "What Computer Science Can Tell Linguists and Psychologists about Language," Johns Hopkins, 1986.
- "Superiority and Generalized Binding" with N. Hornstein, Northeast Linguistics Society – MIT, 1986.
- "The Necessity of Logical Form in Natural Language," with N. Hornstein. Universita di Venezia, 1986.
- "Parasitic Gaps Revisited," MIT - Linguistics Department Colloquium, 1987.
- "Deterministic Parsing and the Derivation of Linguistic Constraints," (delivered to Cognitive Science Group), University of Illinois at Champaign/Urbana, 1987.
- "On the Maturation Hypothesis" (delivered to Psychology Dept. U of Illinois), 1987.
- "Logical Form, Binding, and Antecedent Government," (delivered to the Linguistics Dept. U. of Illinois), 1987.
- "Garden Path Sentences, Minimal Commitment, and Deterministic Processors," MIT Parsing Theory Workshop, 1988.

- "Linguistic Theory, Processing Theory, and Experimental Evidence, Psychology Colloquium, Johns Hopkins, 1988.
- "Minimal Commitment, Deterministic Parsing, and the Theory of Garden Paths," invited participant First Annual CUNY on Language Processing, 1988.
- "Lexical Government Its Role & Consequences," GLOW-Budapest Conference, with D. Lightfoot & N. Hornstein, 1988.
- "Long Distance Movement & Language Acquisition," University of Massachusetts conference on Language Processing & Acquisition, 1988.
- "Computational Perspectives on Natural Language Processing: Representation & Architecture" Cognitive Science Society, 1988.
- "Maturation and Language Acquisition," McGill University Cognitive Science Seminar (Psychology/Linguistics group), 1989.
- "Seminar on Parsing Architecture," McGill University Cognitive Science Seminar (Computer Science group), 1989.
- "Markedness, Maturation Theory and the Acquisition of Subject-Auxiliary Inversion" West Coast Conference on Formal Linguistics, Vancouver, 1989.
- "Acquisition Theory and Generative Principles," Linguistics Dept. Cornell University, 1990.
- "Reanalysis and Parsing Theory," Linguistics Dept. Cornell University, 1990.
- "Monotonicity and Natural Language Processing," MIT AI Lab, 1990.
- "Garden Paths and Natural Language Processing," Princeton Cognitive Science Seminar, 1991.
- "Left and Right Branching Languages in Natural Language Processing. "International Symposium on Japanese Natural Language Processing," Duke University, 1991.
- "Functional Categories and Language Acquisition," Conference on Verb Movement, University of Maryland, 1991.
- "Crosslinguistic Constraints on Processing," Japanese Sentence Processing Conference, Waseda University, Tokyo, Japan, 1993.
- "Principle Based Processing," Tokyo University, 1993.
- "Crosslinguistic Constraints on Processing," Carnegie Mellon University, 1993.
- "Minimal Commitment Processing," Nagoya Christian University, Nagoya, Japan, 1993.
- "Monotonicity and Processing." Cognitive Science Seminar, Johns Hopkins University, 1993.
- "Maturation meets Minimalism: The Case of the Passato Prossimo paper presented at "Generative Approaches to Language Acquisition." (Durham, England), 1994.
- "Language Processing and Grammatical Theory," Wake Forest University, 1994.
- "Reanalysis and Language Processing," Washington and Lee University, 1994.
- "Linguistics and Language Tutoring." Washington and Lee University, 1994.
- "Errors and Theories of Language Processing," Distinguished Lecture series, University of Ottawa, 1995.
- Minimalist Parsing CUNY Conference on Sentence Processing - March 1996.

- New Technologies for Instructional Purpose. Bolt Beranek and Newman - July 1996.
- Minimal Commitment and Minimalist Parsing. George Mason Cognitive Science Research Group, 1996.
- “Acquiring Grammatical Aspect vis Lexical Aspect,” Linguistic Society of America, NYC (with M. Olsen, J. Lilly, and J. Drury), 1997.
- “A Computational Model of Minimalist Syntactic Theories,” Proceedings of the First Berkeley Conference on Computational Psycholinguistics. pp. 1-17 (summer workshop), George Mason University (colloquium), 1997.
- “Acquiring Grammatical Aspect Via Lexical Aspect: The Continuity Hypothesis Cognitive Science Society 1998 (with M. Olsen, J. Lilly, and J. Drury). Proceedings of the Cognitive Science Society, pp. 1998.
- “Innateness and the Acquisition of Grammatical Aspect by Lexical Aspect,” Boston University Conference on Language Acquisition. (with M. Olsen), 1998.
- University of Delaware (colloquium), Computational Psycholinguistics Conference (Berkeley), University of the Basque Country invited course instructor Yale University (colloquium), 1999.
- Linguistics Society of Brazil (week of invited lectures at their annual summer workshop), George Mason University (colloquium), 1999.
- “Recent Advances in Interlingual Machine Translation NSA- Latte Conferences, 1999.
- “Plausibility, Reciprocity, and Modularity” AMLAP sentence Processing Conference (with John Drury and Philip Resnik), 2000.
- Gathering Explicit Information from Implicit Contexts-Use of telicity MT-Summt, with Mari Olsen, Carol van ess Dykema, and David Traum, 2001.

VII. Reviewer:

a. Journals:

- Cognition
- Cognitive Neuropsychology
- Language
- Language Acquisition
- Linguistic Inquiry
- Mind and Language
- Natural Language and Linguistic Theory
- Science

b. Research Boards:

- NSF
- SSHRC

c. Conferences:

- ACL (Association for Computational Linguistics)
- CUNY (CUNY Sentence Processing Conference)
- ESCOL (Eastern States Conference on Linguistics)
- GLOW (Generative Linguists of the Old World)
- NELS (Northeast Linguistics Society)
- WCCFL (West Coast Conference in Formal Linguistics)

d. Presses:

- Cambridge University Press
- Lawrence Erlbaum
- MIT Press
- University of Chicago Press

IX. Grants:

- Application of AI to Foreign Language Training - 4 year grant supporting myself (summer) and 3-5 graduate students to do grammatically based machine translation. \$351,961, 1988-1992.
- NSF (Co-PI with Paul Gorrell), "Informational Encapsulation and Computational Efficiency," 2 1/2 year grant supporting 2 PIS 2 GAs and a programmer to look at the way information is encoded and the domains in which it can be searched in human language understanding," \$184,844, 1990-1994.
- NIH subcontract from Rita Berndt, PI "Syntactic Aspects of Agrammatism," Support for myself and one GA to work with Dr. Berndt (a neuropsychologist)'s team on a linguistic theory of syntactic deficits associated with a certain type of language deficit. \$35,000, 1991-1993.
- Cognitive Approaches to Foreign Language Training - ARI Support for 3 Co-Pis and 5 GAs to build an interface to a language tutoring system. \$527,350, 1992-1997.
- NSF Large Scale Equipment Proposal: Hardware and Software for Large Scale Projects in Information Mediation, Language Translation and Tutoring, and Text Filtering and Retrieval. \$54,154, 1995.

- "Laboratory for Language and Media Processing", MDA904-96-C-1250 co – director \$1,263, 000 (co-director with David Doermann, co-PIs Philip Resnik, and Bonnie Dorr), 1996-2001.
- Laboratory for Language and Media Processing", RD-02-5700 co –director \$781,012 (co-director with David Doermann, co-PIs Philip Resnik, and Bonnie Dorr), 2001-2004.
- "Bootstrapping out of the Multilingual Resource Bottleneck: Improving Statistical Translation Models via text Analyzers Trained from Parallel Corpora," ONR MURI Award. \$1,062,184. (Co-PI with Philip Resnik (PI), Bonnie Dorr), 2001-2004.
- NSFD.EIA0130422, NSF Infrastructure to Develop a Large Scale Testbed of Multi-Modal Resources, \$132,006 (co- PI), 2001-2003.
- "Chinese to English Machine Translation in Degraded and Non- degraded Contexts", MITRE, \$299,997, (Bonnie Dorr, PI co-PI with David Doermann, Philip Resnik), 2002-2003.

X. Outside Faculty Appointments

- Invited faculty at Summer Institute for the Study of Linguistics held in Salzburg, Austria. Course taught in "Computational Linguistics and Language Processing," Summer 1985.
- Invited as distinguished faculty and consultant to offer 6 week course in Computational Linguistics at University of Quebec at Montreal, Summer 1986.

XI. Advising:

Linguistics Department:

PhD advisor:

- Paola Merlo, PhD advisor, degree granted 1993
- Margaret Antonisse, PhD advisor, degree granted 2000
- Sachiko Aoshima, (co-advisor with Colin Phillips, degree expected 2003)
- Elixabete Murguia, (co-advisor with Juan Uriagereka, degree expected 2003)

Member, PhD Committee

- T van Scholten 1995

- Catherine Dolan 1997
- Li Ling Chuang 1997
- JungRan Kim 1994
- Sungki Suh 1994
- Kwang Sup Kim 1998
- Bruce Moren 1999
- Rachel Channon 2001
- Acrisio Pires 2002
- Itziar San Martin 2002
- Ana Gouvea 2002

MA Committees:

- Catherine Dolan, chair, MA committee
- Rebecca Reese, member, MA committee
- Li Ling Chuang, co-chair, MA committee

Computer Science:

PhD advisor:

- Suzanne Stevenson (with J. Reggia) degree granted Dec 1994.
- Carol Whitney (NACS) degree expected 2003.

Committee Member:

- Venu Dasigi, Graduate School Representative, PhD diss.
- Elizabeth Allen, Graduate School Representative, PhD diss.
- Clare Voss, member, PhD committee, degree granted 2002.
- Nizar Habash, member, PhD committee, degree granted 2003.

XII. Professional Societies:

- Linguistic Society of America
- Generative Linguists of the Old World
- Association of Computational Linguistics