

CURRICULUM VITAE

MICHAEL WAYNE GOODMAN

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PERSONAL DETAILS

Gender: Male
Date of birth: 11th of December, 1983
Place of birth: Florence, Oregon, U.S.A.
Present Citizenship: U.S.A.

EDUCATION

- 09/2009–06/2013(expected) University of Washington, U.S.A
Ph.D. in Linguistics
Advisor: Emily M. Bender
- 09/2007–08/2009 University of Washington, U.S.A.
M.A. in Computational Linguistics
Thesis: *Egad: Efficiently Evaluating and Extracting Errors from Deep Grammars*
Advisor: Emily M. Bender
(see below for description of project)
- 09/2002–08/2007 Oregon State University, U.S.A.
B.S. in Computer Science
Focus: Artificial Intelligence and Machine Learning
Minor: Japanese
- 09/2003–06/2004 Waseda University, Japan
Study Abroad. Focused studies on language (particularly Japanese dialects) and culture.
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THESIS FOR M.A. IN COMPUTATIONAL LINGUISTICS

Precision grammars have the ability to generate as well as parse text. By parsing input text to a semantic representation, then generating new sentences from these semantics, likely sources of error can be located in the asymmetries between the parses and realizations. Using this method, the generation coverage of the Japanese grammar Jacy was improved nearly 20% with only four weeks of grammar development time.

PUBLICATIONS

- 07/2010 “Grammar Prototyping and Testing with the LinGO Grammar Matrix Customization System”. 48th Annual Meeting of the Association for Computational Linguistics, Uppsala, Sweden.
- 08/2009 Goodman, Michael and Bond, Francis. “Using Generation for Grammar Analysis and Error Detection”. 47th Annual Meeting of the Association for Computational Linguistics, Singapore.
- 02/2009 J. Shen, J. Irvine, X. Bao, M. Goodman, S. Kolibaba, A. Tran, F. Carl, B. Kirschner, S. Stumpf, T. Dietterich. “Detecting and Correcting User Activity Switches: Algorithms and Interfaces”. 13th International Conference on Intelligent User Interfaces 2009 (IUI-09), Sanibel Island, Florida, USA.

INVITED PRESENTATIONS

- 07/2010 “INFLECTED++: Rethinking the Customization of Morphotactic Systems with the Grammar Matrix”. DELPH-IN Summit, Paris, France.
- 07/2010 Goodman, Michael and Bender, Emily. “What’s in a Word? Refining the Morphotactic Infrastructure in the LinGO Grammar Matrix Customization System”. Workshop on Morphology and Formal Grammar, Paris, France.
- 07/2009 “A Parent’s Guide to Raising Grammars: Minding the Generation Gap”. DELPH-IN Summit, Barcelona, Spain.
- 08/2008 “Multilingual Lexeme Translation: Using Mature Lexicons to Bootstrap Immature Ones”. DELPH-IN Summit, Kyoto, Japan.

DEMONSTRATIONS

- 07/2010 “Grammar Prototyping and Testing with the LinGO Grammar Matrix Customization System”. 48th Annual Meeting

of the Association for Computational Linguistics, Uppsala, Sweden.

08/2009 “EGAD: Erroneous Generation Analysis and Detection.”. Workshop on Grammar Engineering Across Frameworks, Singapore.

TEACHING EXPERIENCE

01/2011–03/2011 Advanced Statistical Models for NLP (Teaching Assistant), UW

09/2004–04/2005 First-year Japanese Language (Teaching Assistant), OSU

LANGUAGE KNOWLEDGE

English	native
Japanese	spoken: intermediate-advanced written: intermediate
Spanish	intermediate
Mandarin	novice-intermediate

WORKING EXPERIENCE

09/2009–current University of Washington
Research Assistant for the Grammar Matrix project.
Developed the infrastructural code used for the Grammar Matrix and its web-based questionnaire. Duties included refactoring major components of the system, diagnosing and fixing bugs, providing technical support for users, implementing new features, revising both the theoretical and practical design of the morphotactics subsystem, and writing documentation and academic papers submitted to conferences.

Teaching Assistant
Graded written and programming assignments, held office hours, monitored lectures, answered student questions.

02/2009–06/2009 Populus Group
Contractor in the Machine Translation group at Microsoft Research (Redmond).
Acquired and processed new sources of data for training and testing the translation systems. Configured, trained, and evaluated builds and models. Designed, executed, and evaluated experiments with different data configurations. Found and fixed bugs in the training and data processing code, as

well as in the SQL queries. Improvements to training data yielded significant increases in BLEU scores across many languages, one of which being enough for the release a new system—the English–Hebrew translator. Programming was done in C# and SQL.

- 10/2008–01/2009 National Institute of Information and Communications Technology (NICT/情報通信研究機構)
Invited Advisor for the Language Infrastructure Group.
Designed and implemented a debugging tool for grammar developers that characterizes the performance of each corpus item in an HPSG-based implemented grammar, then attempts to pinpoint n-grams of grammar rules most likely causing problems. Also fixed the most prevalent problems in the grammar. Programming was primarily done in Perl, with some TDL, Python, and Lisp as well.
- 06/2008–09/2008 University of Washington
Research Assistant for the Grammar Matrix project.
In conjunction with the thesis project, this position also involved grammar engineering and creating data used for evaluation. Most programming was done in Python.
- 04/2005–08/2007 Oregon State University
Software Developer and Undergraduate Researcher on the TaskTracer project. Implemented new functionality and user interfaces for a personal information management tool that made use of machine learning to intelligently organize documents and resources. Mentored incoming employees and lead team discussions. Programming was done in C#, C++, and VB.

OTHER SOFTWARE DEVELOPMENT EXPERIENCE

- 01/2007- F-Spot photo management application
F-Spot is an open-source project for the Gnome desktop on Linux based operating systems. This experience includes code contributions, mailinglist and IRC participation, and testing/debugging.

COMPUTING SKILLS

Programming Languages (ordered by fluency)	Python, C#, Perl, Java, C++, C, Haskell, Assembly, Prolog, BA- SIC/VB, PHP
Version Control Systems	Subversion, Bazaar, CVS, SourceDe- pot, git
IDEs and Editors	Vim, Emacs, LKB, MS Visual Stu- dio 2003/2005/2008, KomodoEdit, Eclipse
Bug Trackers	Launchpad, Atlassian JIRA, Bugzilla, Trac, Product Studio
Operating Systems	Linux, Microsoft Windows

REFERENCES

These persons are familiar with my professional qualifications and my character:

Dr. Emily M. Bender (Thesis advisor)
Assistant Professor Phone: +1.206.543.6914
Department of Linguistics Email: ebender at u.washington.edu
University of Washington Website: <http://faculty.washington.edu/ebender>
Box 354340
Seattle, WA 98195-4340

Dr. Simone Stumpf (Employer / Supervisor)
User Experience Architect Phone: +1.503.471.4250
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3747 NE Sandy Blvd.
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More references available upon request.

Seattle, March 9, 2011