CV — Joshua Bowles

Contact Information

Company	One On One Marketing
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Technical Blog	jbowles-lambda

Overall Experience

Since 2007	Research in mathematical, biological, documentary, and computational linguistics.
Since 2010	Research and software development in business.
Since 2013	Research in various machine learning techniques.
Current/Future	Familiarizing myself with tools using large data sets and machine learning techniques for text processing; deliver near real-time results for large data analysis (for example, Go and Ruby web apps with complex and accurate text classification for near real-time twitter stream); experiment with different distributed system architectures; experiment with different concurrency models (via Scala, Ruby, Clojure, Go) and the kinds of data problems suited to them.

Employment

2010 – present	**Software Developer and Researcher**, One On One Marketing Internet Marketing Company, Lehi, UT, *Develop and maintain in-house products as well as lead-gen transaction and validation system with Ruby and Rails; Maintain production transaction system in Ruby and co-ordinate with Business Intelligence; Technical lead on re-architecting, writing, and delivering production release of new distribution system uisng Ruby and Nodejs; Co-architect of new transaction system in Ruby and in the process of porting it to Go on personal time.*
2008 – 2010	**Adjunct Lecturer**, Department of English Utah Valley University, Orem, UT. *Research techniques, informal logic, and pragmatics relevant to science composition.*
2009, July – Nov	**Computational Linguist (Intern)**, Attensity Corporation U.S. Technology Center, Salt Lake City, UT. *Knowledge engineering; named entity recognition; compiling and judging corpora of lexical items designed to fit within specific ontologies; some work on developing methods for introducing fixed phrases and idioms into the lexicon.*

Consulting Work

2013, 9 months	Utah, USA. Contextual classification of (non)standard unicode text in social media.
2007, 4 months	Northern Rio Negro, Brazil. Endangered Language Preservation Techniques with FOIRN (Federacão das Organizacões Indigenas do Rio Negro).
2004, 4 months	Colorado, USA. Afghani Poshtun sources for language instruction in English and Poshtun.

Education

Present	PhD on hold. Personal work in Computational Linguistics, Machine Learning, and Computer Science
2006–2008	University of Utah M.A., Theoretical Linguistics Thesis: *Agreement in Tuyuca* Advisor: Lyle Campbell
2000–2006	Metropolitan State University of Denver B.A., English (minor in Linguistics; completed 24 credit hours in Philosophy) Honours Thesis: *Dislocated Poetics: Language, Biology, Brain, and Literature* Advisor: Paul Farkas

Open Source - Personal

Go - current focus	Rivet: Natural Language Processing tools
Ruby - on hold	Ruth: Stream, encrypt, and parse application logs using Distributed Ruby. This will be pulled out to 3 separate projects in the future.
Ruby - on hold	Taml Hub: Experimenting with twitter stream, text classification, sentiment analysis, and Hadoop.
Clojure - on hold	Entropy: Using MaxEnt models from Java's OpenNLP to experiment with parsing unstructured text from application log files.

Open Source - Contributed

Ruby	Ellington: Simple state-machine inspired architecture for streamlining transactional processing. **Significant role in designing and making architectural decisions; product of redesigning transaction system at current job.**
Ruby	Grand: Extract-Transform-Load MySQL tables to csv. **Helped with requirements, architecting, and production implementation.**
Ruby	Goldmine: MapReduce type functionality using Ruby. **Early adopter and tester.**

Programming Languages

Most Experience	Ruby (1.8x, 1.9.x, 2.x), Go (1.x)

Favorites	Ruby, Go, Lisp
Actively Learning	Go, Nodejs, Clojure, Scala, Church (in order of emphasis)

Research

General	**Computational and Theoretical Linguistics, Software Development**
Linguistic	Evidentiality, Idioms & Polysemy, Modality, Tense, Context
Other	Logic, Probability, Algebra, Artificial Intelligence, Machine Learning
Projects on Hold	Polysemy and Context: What is Computational Semantics Good For? Recursion in Language Symmetry in X-bar Structure: Graphs and Algebraic Groups in Linguistic Theory Syntax and Pragmatics of Evidentiality in English Corpus of English Evidentiality Data (CEED)

Storage & Transport Technologies

Most Experience	MySQL, PostgreSQL
Actively Learning	Kafka, Doozer, Storm, Hadoop (and ecosystem)
Limited	MongoDB, Redis, Oracle, Hadoop
Interests	Riak, Neo4j

Other Random Technologies

Markup	LaTeX, HTML, MarkDown
Languages	SQL, PLSQL, Prolog
Tools	Emacs, Vim, Oracle Application Express, JIRA, Virtual Box
OS	Linux (Ubuntu, Fedora, Arch, CentOS), Mac OSX, Windows

Natural Languages

English (native), Spanish (basic speaking and reading), Portuguese (basic reading, beginning speaking), German and Old English (1 year formal study each), Tuyuca and Desano (structural and research knowledge), Afghani Poshto (academic knowledge), General knowledge of many different natural languages and their properties.

Field Work

2007, 4 months	Sao Gabriel da Cachoeria and Camanaus, Brazil. Work on all grammatical aspects of Desano and limited work on Cubeo; Tukanoan family.
2004, 1 month	Denver, Colorado, USA. Limited work on phonology of Afghani Poshto; Indo-Iranian family.

Academic Grants

2007	Endangered Language Fund (Co-PI) — $3,500

| 2007 | International Field Work Travel Funds, University of Utah — $300 |

Publications

2009	The morphosyntax of tense-evidentials: An initial model. *LSO Working Papers in Linguistics: Proceedings of the 6th Workshop in General Linguistics,* Volume 8. University of Wisconsin-Madison.
2009	The Eastern Tukanoan languages and the typology of classifiers. *Proceedings of the 33rd Annual Meeting of the Berkeley Linguistics Society.* (Wilson Silva and Joshua Bowles)
2009	Review of Heck (2008), *On pied-piping: Wh-movement and beyond* (Mouton de Gruyter). LinguistList.
2008	Some questions about determining causal inference and criteria for evidence: Response to Ladd, Dediu, and Kinsella (2008). *Biolinguistics* 2.2-3: 247-255.
2007	Review of Niyogi (2006), *The computational nature of language learning and evolution* (MIT Press). *Word* 57.2: 178-183. (pre-published version here)
submitted	Notice of Booij (2007), *The grammar of words* (Oxford University Press). eLanguage.
	Notice of Schäfer (2008), *The syntax of (anti-)causatives: External arguments in change-of-state contexts* (Amsterdam: John Benjamins). eLanguage.
	Language families. *Encyclopedia of Native American History* ed. by Peter C.Mancall. New York: Facts on File. (see submitted draft here)
	Linguistic areas. *Encyclopedia of Native American History* ed. by Peter C. Mancall. New York: Facts on File. (see submitted draft here)

Talks & Conferences

2008	Evidentials, Agreement, and Tuyuca: Initial Hypotheses. *Linguistics Department Student Conference* 7, University of Utah, April 10.
	Evidentiality and Agreement Interactions in Tuyuca: A Generative Approach. *Workshop in General Linguistics* 6, University of Wisconsin-Madison, April 4-5.
	Agreement and Tense-Evidentiality Morphs in Tuyuca. *Workshop on Structure and Constituency in the Languages of the Americas* 13, Queens University, Ontario, Canada, March 28-30 (unable to attend).
	The "Language of Observation" in Linguistics (Informal Presentation). University of Utah Linguistics Reading Group, February 15.
2007	Neural correlates of Grammatical Gender: Functionalist and Formalist Assumptions (Informal Presentation). University of Utah Linguistics Reading Group, October 15.
	Classifiers and Typology in Eastern Tukanoan Languages. *7th Biennial Meeting of the Association for Linguistic Typology*, Paris, France, September 25-28. (Wilson Silva and Joshua Bowles)

Formalism and Functionalism in Language Documentation. *Department of Foreign Languages and Literatures*, Universidade Federal do Amazonas, Brazil, June 10.

The Amazonian Languages Research and Documentation Group. Poster. *3rd Annual Conference on Endangered Languages and Cultures of the Native Americas*, University of Utah, April 13-15. (Wilson Silva and Joshua Bowles)

The Eastern Tukanoan Languages and the Typology of Classifiers. *33rd Annual Berkeley Linguistics Society Conference*, University of Berkeley, California, February 9-11. (Wilson Silva and Joshua Bowles)

A Typology of Nominal Classifiers in the Eastern Tukanoan Languages. *Department of Linguistics Speakers Series*, University of Utah, January 24. (Wilson Silva and Joshua Bowles)

2004	Neurobiology, Poetry, and Dislocation. *English Faculty Colloquium*, Metropolitan State College of Denver, Colorado, April 25. (Paul Farkas and Joshua Bowles)
2002	Philosophy of Language, the Dialectic Method, and James Joyce. *Honors Regional Conference,* University of Colorado, Boulder, March 24-25.

Teaching

2010/2008	*Science & Technology Writing and Research* ENG 2020, Undergraduate Utah Valley University (9 courses total)
Summer 2009	*Humanities & Social Science Writing and Research* ENG 2010, Undergraduate Utah Valley University *Introduction to Composition* ENG 1010, Undergraduate Utah Valley University
Spring 2008/2007	Teaching Assistant, *Introduction to Language* LING 1200, Undergraduate University of Utah, David Iannucci (1 semester), Mauricio Mixco (2 semesters)
Fall 2006	Teaching Assistant, *Cross-cultural Communication* LING 3600, Undergraduate University of Utah, Stephen Sternfeld

Academic Services

2007-2008	Volunteer work for *Conference on Endangered Languages and Cultures of the North Americas*, University of Utah.
2007	Attended by invitation with Wilson Silva the 20th Anniversary Meeting of FOIRN (Federação das Organizações Indigenas do Rio Negro) Taracua, Brazil: June 25-29.
2006	Co-founding member of research group: Amazonian Languages Research and Documentation, Center for American Indian Languages, University of Utah.
2003	Lead student organizer and introductory comments for "Noam Chomsky: Live at the Auraria Campus," Presented by MSCD Student Activities, Denver, Colorado, April 04.

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