

John DeNero

CONTACT INFORMATION	781 Soda Hall UC Berkeley Berkeley, CA 94720	<i>Phone:</i> (415) 203-1943 <i>Email:</i> denero@berkeley.edu <i>Web:</i> http://www.denero.org
POSITIONS	Lecturer PSOE, UC Berkeley, in Computer Science	<i>2014-present</i>
	Senior Research Scientist, Google Inc., in Google Translate	<i>2010-2014</i>
EDUCATION	University of California, Berkeley Ph.D., Computer Science <i>Advisor:</i> Dan Klein	<i>2005-2010</i>
	Stanford University Master of Arts, Philosophy	<i>2001-2002</i>
	Bachelor of Science, with distinction <i>Major:</i> Mathematical and Computational Science <i>Secondary Major:</i> Symbolic Systems	<i>1998-2002</i>
AWARDS	Google Global Intern Scholarship	<i>2009</i>
	Teaching Effectiveness Award, UC Berkeley	<i>2008</i>
	Outstanding Graduate Student Instructor, CS Division	<i>2007</i>
	Outstanding Graduate Student Instructor, UC Berkeley	<i>2007</i>
PUBLICATIONS	John DeNero. <i>Composing Programs</i> . Online textbook, http://www.composingprograms.com , 2013.	
	John DeNero. <i>Phrase Alignment Models for Statistical Machine Translation</i> . Ph.D. Dissertation in Computer Science, UC Berkeley, 2010.	
	Refereed Publications	
	Brian Hou, Sumukh Sridhara, and John DeNero. “Fuzz Testing Projects in Massive Courses,” in <i>Learning @ Scale</i> , 2016.	
	Brian Hou, Marvin Zhang, and John DeNero. “Restaurant Recommendations,” in the <i>Nifty Assignments track of the ACM Special Interest Group on Computer Science Education</i> , 2016.	
	“CS10K Teachers by 2017? Try CS1K+ students NOW,” panel in the <i>ACM Special Interest Group on Computer Science Education</i> , 2016.	
	Joern Wuebker, Spence Green, and John DeNero. “Hierarchical Incremental Adaptation for Statistical Machine Translation,” in the <i>Proceedings of Empirical Methods in Natural Language Processing</i> , 2015.	
	Rohan Chitnis and John DeNero. “Variable-Length Word Encodings for Neural Translation Models,” in the <i>Proceedings of Empirical Methods in Natural Language Processing</i> , 2015.	

- Soumya Basu, Brian Hou, Albert Wu, and John DeNero. “Problems Before Solutions: Automated Problem Clarification at Scale,” in *Learning @ Scale*, 2015.
- John DeNero and Stephen Martinis. “Teaching Composition Quality at Scale,” in the *Proceedings of the ACM Special Interest Group on Computer Science Education*, 2014.
- John DeNero, Tom Magrino, and Eric Tzeng. “Ants Vs SomeBees,” in the *Nifty Assignments track of the ACM Special Interest Group on Computer Science Education*, 2014.
- Karl Pichotta and John DeNero. “Identifying Phrasal Verbs Using Many Bilingual Corpora,” in the *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, 2013.
- Greg Durrett and John DeNero. “Supervised Learning of Complete Morphological Paradigms,” in the *Proceedings of the North American Association of Computational Linguistics*, 2013.
- John DeNero and Aditi Muralhindaran. “Twitter Trends,” in the *Nifty Assignments track of the ACM Special Interest Group on Computer Science Education*, 2013.
- David Golland, John DeNero, and Jakob Uszkoreit. “A Feature-Rich Constituent Context Model for Grammar Induction,” in the *Proceedings of the Association of Computational Linguistics*, 2012.
- Spence Green and John DeNero. “A Class-Based Agreement Model for Generating Accurately Inflected Translations,” in the *Proceedings of the Association of Computational Linguistics*, 2012.
- Mohit Bansal, John DeNero, and Dekang Lin. “Unsupervised Translation Sense Clustering,” in the *Proceedings of the North American Association of Computational Linguistics*, 2012.
- Robert Moore and John DeNero. “L1 and L2 Regularization for Multiclass Hinge Loss Models,” in the *Proceedings of the Symposium on Machine Learning in Speech and Language Processing*, 2011.
- John DeNero and Jakob Uszkoreit. “Inducing Sentence Structure from Parallel Corpora for Reordering,” in the *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, 2011.
- John DeNero and Klaus Machery. “Model-Based Aligner Combination Using Dual Decomposition,” in the *Proceedings of the Association of Computational Linguistics*, 2011.
- John DeNero and Dan Klein. “Discriminative Modeling of Extraction Sets for Machine Translation,” in the *Proceedings of the Association of Computational Linguistics*, 2010.
- John DeNero, Shankar Kumar, Ciprian Chelba, and Franz Och. “Model Combination for Machine Translation,” in the *Proceedings of the North American Association of Computational Linguistics*, 2010.
- John DeNero and Dan Klein. “Teaching Introductory Artificial Intelligence with Pac-Man,” in the *Proceedings of the Symposium on Educational Advances in Artificial Intelligence*, 2010.
- John DeNero and Dan Klein. “The Pac-Man Projects Software Package for Introductory Artificial Intelligence,” in the *Proceedings of the Symposium on Educational Advances in Artificial Intelligence, Model Assignments Track*, 2010.
- Taylor Berg-Kirkpatrick, Alexandre Bouchard-Ct, John DeNero, and Dan Klein. “Painless Unsupervised Learning with Features,” in the *Proceedings of the North American Association of Computational Linguistics*, 2010.
- John DeNero, David Chiang, and Kevin Knight. “Fast Consensus Decoding over Translation

Forests,” in the *Proceedings of the Association of Computational Linguistics*, 2009.

Adam Pauls, John DeNero, and Dan Klein. “Consensus Training for Consensus Decoding in Machine Translation,” in the *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, 2009.

John DeNero, Adam Pauls, and Dan Klein. “Asynchronous Binarization for Synchronous Grammars,” in the *Proceedings of the Association of Computational Linguistics, Short Paper Track*, 2009.

Aria Haghighi, John Blitzer, John DeNero, and Dan Klein. “Better Word Alignments with Supervised ITG Models,” in the *Proceedings of the Association of Computational Linguistics*, 2009.

John DeNero, Mohit Bansal, Adam Pauls, and Dan Klein. “Efficient Parsing for Transducer Grammars,” in the *Proceedings of the North American Association of Computational Linguistics*, 2009.

John DeNero, Alex Bouchard-Ct, and Dan Klein. “Sampling Alignment Structure under a Bayesian Translation Model,” in the *Proceedings of the Conference on Empirical Methods in Natural Language Processing*, 2008.

John DeNero and Dan Klein. “The Complexity of Phrase Alignment Models,” in the *Proceedings of the Association of Computational Linguistics, Short Paper Track*, 2008.

John DeNero and Alexandre Bouchard. “A Hierarchical Dirichlet Process Prior for a Conditional Model of Phrase Alignment,” in the *Workshop on Unsupervised Models in NLP, Neural and Information Processing Systems*, 2008.

Aria Haghighi, John DeNero, and Dan Klein. “A* Search via Approximate Factoring,” in the *Proceedings of American Association of Artificial Intelligence, Nectar Track*, 2007.

John DeNero and Dan Klein. “Tailoring Word Alignments to Syntactic Machine Translation,” in the *Proceedings of the Association of Computational Linguistics*, 2007.

Aria Haghighi, John DeNero, and Dan Klein. “Approximate Factoring for A* Search,” in the *Proceedings of the North American Association of Computational Linguistics*, 2007.

John DeNero, Dan Gillick, James Zhang, and Dan Klein. “Why Generative Phrase Models Underperform Surface Heuristics,” in the *Proceedings of the Workshop on Statistical MT*, 2006.

ACTIVITIES

Organizing Committee: EAAI ’13, EAAI ’14, NACLO/ELCLO ’13, NACLO/ELCLO ’14, EMNLP ’15 (Session chair), NAACL ’16 (Demonstration chair), EMNLP ’16 (Area chair)

Conference Reviewer: EMNLP ’08, NAACL ’09, ACL ’09, EMNLP ’09, MT Summit ’09, NAACL ’10, ACL ’10, COLING ’10, ACL ’11, AAAI ’11, EMNLP ’11, NAACL ’12, ACL ’12, EMNLP ’12, EAAI ’12, NAACL ’13, ACL ’13, EMNLP ’13, EACL ’14, NAACL ’15, ACL ’15, EMNLP ’15

INVITED TALKS

Invited Research Talk, Google Research 2010
Host: Jay Ponte

Invited Research Talk, Yahoo! Research 2010
Host: Patrick Pantel

Invited Research Talk, Microsoft Research 2010
Host: Robert Moore

Invited Research Talk, Toyota Technological Institute, Chicago <i>Host:</i> Karen Livescu	<i>2010</i>
Invited Research Talk, New York University <i>Host:</i> Richard Cole	<i>2010</i>
Invited Research Talk, Johns Hopkins University <i>Host:</i> Mark Dredze	<i>2010</i>
Invited Research Talk, University of Maryland <i>Host:</i> Jimmy Lin	<i>2010</i>
Guest Lecture, UC Berkeley, Applied Natural Language Processing <i>Host:</i> Barbara Rosario	<i>2009</i>
Invited Research Talk, Yahoo! Research <i>Host:</i> Patrick Pantel	<i>2008</i>
Invited Research Talk, Information Sciences Institute <i>Host:</i> Kevin Knight	<i>2008</i>
Invited Research Talk, International Computer Science Institute <i>Host:</i> Dilek Hakkani-Tür	<i>2008</i>
Invited Research Talk, Microsoft Research Asia <i>Host:</i> Mu Li	<i>2008</i>
Invited Research Talk, SRI International <i>Host:</i> Jing Zheng	<i>2008</i>