

KEVIN KNIGHT

Contact

DiDi Labs
4640 Admiralty Way, Suite 225
Marina del Rey, CA 90292
`kevin.crawford.knight@gmail.com`

Current

- Chief Scientist for Natural Language Processing (2018-), Didi Chuxing.
- Dean's Professor of Computer Science (2014-), Research Professor (2011-2014), Research Associate Professor (2002-2010), Research Assistant Professor (1993-2002), Computer Science Department, University of Southern California.
- Chief Scientist (2017-), Specifio.
- Chief Scientist (2001-2010), SDL Language Weaver.
- Research Director and Fellow (1992-2018), USC/Information Sciences Institute.

Education

- **Carnegie Mellon University.** PhD, Computer Science, 1992. Dissertation title: "Integrating Knowledge Acquisition and Language Acquisition."
- **Harvard University.** BA, Computer Science, 1986.

Professional

- **ACL Executive Council member** (Association for Computational Linguistics), 2009-2013.
- **ACL President** (Association for Computational Linguistics), 2011.
- **AAAI Council member** (Association for the Advancement of Artificial Intelligence), 2005-2007.
- **Editorial boards.** *ACM Transactions on Speech and Language Processing*, 2004-2007. *Computational Linguistics*, 1999-2001. *Journal of Artificial Intelligence Research*, 1999-2001. *Machine Translation*, 2007-.
- **General chair.** Conference of the Association for Computational Linguistics (ACL), 2005. Conference of the North American Association for Computational Linguistics (NAACL), 2016.
- **Program chair.** Conference of the North American Association for Computational Linguistics (NAACL), 2001.
- **Book review editor.** *AI Magazine*, 1994-1997.
- **Invited to lead** six-week intensive workshop on statistical machine translation (Language Engineering for Students and Professionals Integrating Research and Education, Johns Hopkins University, funded by NSF and DoD), Summer 1999.

Invited talks

- “Deciphering Historical Manuscripts,” International Conference on the Frontiers of Handwriting Recognition (ICFHR), 2018.
- “The Moment When the Future Fell Asleep,” Conference of the North American Association for Computational Linguistics (NAACL), 2018.
- “What Is Neural Machine Translation Learning?” Conference on Technologies and Applications of Artificial Intelligence (TAAI), 2017.
- “What Is Neural Machine Translation Learning?” Association for Computational Linguistics, Workshop on Neural Machine Translation (ACL-NMT), 2017.
- “Structures for Machine Translation: Strings, Trees, and Graphs,” International Workshop on Computational Semantics (IWCS), Potsdam, 2013.
- “The Voynich Manuscript,” (with Sravana Reddy), Stanford University, 2013.
- “Human Language Technology,” AAAS conference (Boston, MA), 2013.
- “Transformation Frameworks for Machine Translation: Strings, Trees, and Graphs,” Eleventh International Workshop on Tree Adjoining Grammars and Related Formalisms (TAG+11), 2012; Weighted Automata: Theory and Applications (WATA), 2012.
- “Human Language Technology,” NITRD 20th Anniversary, 2012.
- “Why Do We Call it Decoding?” Conference on Empirical Methods in Natural Language Processing (EMNLP), Cambridge, USA, 2010.
- “What’s on the Horizon? The Research Agenda,” Translation Automation Users Society (TAUS) User Conference, Portland, 2010.
- “Morphology in Statistical Machine Translation: Integrate-in, or Tack-on?” NAACL Workshop on Syntax and Parsing of Morphologically Rich Languages (SPMRL), Los Angeles, 2010.
- “Theory and Practice of Translation,” ACL Workshop on Applications of Tree Automata in Natural Language Processing, Stockholm, 2010.
- “Weighted Transducers for Natural Language Processing,” Weighted Automata: Theory and Applications (WATA), Dresden, 2008.
- “Automated Language Translation Needs Generation Help Badly,” International Conference on Natural Language Generation (NLG), Prague, 2007.
- “Capturing Practical Natural Language Transformations,” Mathematics of Language Conference (MOL), Los Angeles, 2007.
- “No More Strings, Please,” IEEE/ACL Spoken Language Technology Workshop, Aruba, 2006.
- “Can a Machine Translate Without Knowing What a Verb Is?” Conference of the North American Association for Computational Linguistics, Workshop on Statistical Machine Translation (WMT), New York City, 2006.
- “Isn’t Linguistic Structure Important, Asked the Engineer?” Conference of the European Association for Computational Linguistics (EACL), Trento, 2006.
- “Results on Decipherment Problems,” ESSLLI, Heriot-Watt, Scotland, 2005.

- “What’s New in Statistical Machine Translation,” International Joint Conference on AI (IJCAI), Edinburgh, Scotland, 2005.
- “What’s New in Statistical Machine Translation,” Conference on Uncertainty in AI (UAI), Acapulco, Mexico, 2003.
- “Deeper Representations for Machine Translation: Ready or Not?,” Conference on Empirical Methods in Natural Language Processing (EMNLP), 2003.
- “Every Time I Fire a Statistician, I Get a Warm Fuzzy Feeling,” Conference of the Association for Machine Translation in the Americas (AMTA), Cuernavaca, Mexico, 2000.
- “Statistical Machine Translation: Where it Went,” Conference on Empirical Methods in Natural Language Processing (EMNLP), 1997.

Teaching

- **University of Southern California.** *Natural Language Processing*, 1993-1998. *Advanced Natural Language Processing*, 2000-2017.
- **Stanford University.** *Statistical Machine Translation*, short course, Linguistic Society of America Summer School (2007).
- **University of California, Los Angeles.** *Machine Translation*, short course, UCLA Extension (1996, 1997).
- **University of Aberdeen.** *Machine Translation*, short course (2005).
- **Conference tutorials.** **ACL 1996:** *Machine Translation*. **NAACL 2000:** *Machine Translation*. **ACL 2000:** *Statistical Machine Translation*. **AMTA 2000:** *Statistical Machine Translation*. **MT Summit IX 2003:** *Statistical Machine Translation*. **AMTA 2004:** *Statistical Machine Translation*. **NAACL 2004:** *Machine Translation*. **ACL 2006:** *Synchronous Grammars and Tree Transducers*. **MT Summit XI 2007:** *Statistical Machine Translation*. **ACL, 2009:** *Topics in Statistical Machine Translation*. **NAACL, 2009:** *Writing Systems, Transliteration, and Decipherment*. **ACL, 2013:** *Decipherment*.
- **Harvard University.** Teaching Assistant (1983-1985). Certificate of Distinction in Teaching, Committee on Undergraduate Education.
- **Beijing, People’s Republic of China.** English instructor at the Mining College in Beijing (1981).

Grants Awarded

- “Communicating with Intelligent Computers.” 2015-2019. DARPA-funded.
- “Exploiting Language Information for Situational Awareness.” 2015-2019. DARPA-funded.
- “Decipherment of Historical Manuscripts.” 2015-2018. Funded by Swedish equivalent of NSF.
- “Machine Translation of Informal Text and Speech.” 2011-2016. (with D. Marcu). DARPA-funded.
- “MURI: Machine Translation for Low-Density Languages.” 2010-2014. (with J. Carbonell, R. Barzilay, and J. Baldridge). Army-funded.
- “Richer Representations for Machine Translation.” 2009-2013. (with M. Palmer, N. Xue, D. Gildea, and K. McKeown). NSF-funded.

- “Deciphering Natural Language.” 2009-2013. (with R. Barzilay). NSF-funded.
- “Improvements to Speech-to-Speech Translation.” 2008-09. DARPA-funded.
- “Decipherment Techniques Applied to Machine Translation.” 2007-08. DARPA-funded.
- “Improving Fundamental Accuracy of Speech-to-Speech Translation.” 2006-07. (with D. Marcu). DARPA-funded.
- “Human Informed Statistical Machine Translation.” 2005-2011. (with D. Marcu). DARPA-funded.
- “Advanced Language Modeling for Machine Translation.” 2005-06.
- “Iraqi-English Speech-to-Speech Deployment.” 2005-06. DARPA-funded.
- “Treeworld: Probabilistic Tree Transducers for Machine Translation and Natural Language Processing.” 2004-09. (with D. Gildea and D. Marcu). NSF-funded.
- “Translation Technology for Multilingual Translation Modeling.” 2003-07. (with M. Ostendorf, J. Bilmes, K. Kirchoff, and D. Marcu). NSF-funded.
- “Machine Translation for a Handheld Speech Translator.” 2002-04. (with D. Marcu). DARPA-funded.
- “Transmodel: US-Egypt Cooperative Project on Machine Translation.” (with A. Rafea). 2003-04. NSF-funded.
- “Advanced Generation for Question Answering.” 2002-03. (with D. Marcu). ARDA-funded.
- “ReWRITE: A Probabilistic Approach to Rewriting for Machine Translation, Language Generation, and Abstracting.” 2000-02. (with D. Marcu). DARPA-funded.
- “Robust, Scalable Language Generation Using Symbolic and Statistical Techniques.” 1999-2001. NSF-funded.
- “Designing Robust Technology for Automatic Language Generation.” 1998-99. (with E. Hovy). DARPA-funded.
- “Building a Standard Platform for Statistical Machine Translation.” 1999. NSF-funded.
- “Arabic-to-English Machine Translation.” 1996-99. (with E. Hovy). DoD-funded.
- “FSTRANS: Performance- and User-Oriented Enhancements to Machine Translation.” 1996. (with E. Hovy). DoD-funded.

PhD Students

- Dr. Nima Pourdamghani (2019), “Non-Traditional Resources and Improved Tools for Low-Resource Machine Translation.”
- Dr. Xing Shi, PhD thesis (2018), “Neural Sequence Models: Interpretation and Augmentation.”
- Dr. Marjan Ghazvininejad, PhD thesis (2018), “Neural Creative Language Generation.”
- Dr. Qing Dou, PhD thesis (2015), “Beyond Parallel Data—A Decipherment Approach for Better Quality Machine Translation.”
- Dr. Steven DeNeefe, PhD thesis (2011), “Tree-Adjoining Machine Translation.”
- Dr. Sujith Ravi, PhD thesis (2011), “Deciphering Natural Language.”

- Dr. Victoria Fossum, PhD thesis (2010), “Integrating Parsing and Word Alignment in Syntax-Based Machine Translation.” (*University of Michigan PhD, advised by Steven Abney*).
- Dr. Jonathan May. PhD thesis (2010), “Weighted Tree Automata and Transducers for Syntactic Natural Language Processing.”
- Dr. Liang Huang. PhD thesis (2008), “Forest-Based Algorithms in Natural Language Processing.” (*University of Pennsylvania PhD, co-advised with Aravind Joshi*).
- Dr. Philipp Koehn. PhD thesis (2003), “Noun Phrase Translation.”
- Dr. Kenji Yamada. PhD thesis (2002), “A Syntax-Based Statistical Translation Model.”
- Dr. Yaser Al-Onaizan. PhD thesis (2002), “Translating Named Entities Using Bilingual and Monolingual Resources.”
- Dr. Irene Langkilde. PhD thesis (2002), “Automatic Sentence Generation Using a Hybrid Statistical Model of Lexical Collocations and Syntactic Relations.”
- Dr. Ishwar Chander. PhD thesis (1998), “Automated Postediting of Documents.”
- **Served on PhD dissertation committee:** Sahil Garg (USC), Yuanhang Su (USC), Xiaoman Pan (RPI), Zhengping Che (USC), Dogan Can (USC), Sayan Ghosh (USC), Kuan Liu (USC), Soravit Changpinyo (USC), Simon Woo (USC), Jason Riesa (USC), Sudeep Gandhe (USC), Markos Mylonakis (UvA), Vamshi Ambati (CMU), Markus Saers (Uppsala), Gholamreza Haffari (SFU), Rahul Bhagat (USC), Matt Michelson (USC), Antonio Roque (USC), Ashish Venugopal (CMU), Hao Zhang (Rochester), Alexander Fraser (USC), Qing Luo (USC), Colin Cherry (Alberta), Yuk Wah Wong (UTexas), Feng Pan (USC), Chris Callison-Burch (Edinburgh), Dragos Stefan Munteanu (USC), Yuan Ding (Penn), Deepak Ravichandran (USC), Noemie Elhadad (Columbia), David Evans (Columbia), Hal Daume (USC), Soomin Kim (USC), Radu Soricut (USC), Chad Langley (CMU), Liang Zhou (USC), Fei Huang (CMU), Shou-de Lin (USC), Greg Kondrak (Toronto), Sheila Tejada (USC), Michael Harm (USC).
- **Supervised summer internships: 2017:** Yining Chen (Dartmouth), Leon Cheung (UCSD), Sorch Gilroy (Edinburgh), Nelson Liu (UW), Alexandra (Sasha) Mayn (Carleton College). **2016:** Nada Aldarrab (USC), Angeliki Laziradou (U. Trento), Xiang Li (U. Chicago), Sebastian Mielke (Dresden Univ. Technology), Ke Tran (U. Amsterdam). **2015:** Callum O’Shaughnessy (Queens University), Sudha Rao (Maryland), Wenduan Xu (Cambridge), Barret Zoph (USC). **2014:** Julian Schamper (Aachen), Eunsol Choi (Washington), Allen Schmaltz (Harvard), Matic Horvat (Cambridge). **2013:** Daniel Bauer (Columbia), Fabienne Braune (Stuttgart), Elliot Meyerson (Wesleyan), Malte Nuhn (Aachen), Arvind Neelakantan (Columbia). **2012:** Jacob Andreas (Columbia), Daniel Bauer (Columbia), Karl Moritz Hermann (Oxford), Bevan Jones (Edinburgh/Macquarrie), Nathan Schneider (CMU), Ada Wan (CUNY). **2011:** Licheng Fang (Rochester), Sravana Reddy (Chicago), Xuchen Yao (JHU). **2010:** Yoav Goldberg (Ben-Gurion), Ann Irvine (JHU), Sravana Reddy (Chicago), Sasha Rush (MIT). **2009:** Michael Auli (University of Edinburgh), Erica Greene (Haverford), Adam Pauls (UC Berkeley), Paramveer Dhillon (Penn). **2008:** Amittai Axelrod (University of Washington), John DeNero (UC Berkeley), Kyle Gorman (Penn Linguistics), Catalin Tirnauca (Universitat Rovira i Virgili). **2007:** Michael Bloodgood (Delaware), Jennifer Gillenwater (Rice University), Carmen Heger (Dresden), Wei Ho (Princeton). **2006:** Joseph Turian (NYU), Chenhai Xi (Pitt), Victoria Fossum (Michigan), Liang Huang (Penn), Jason Riesa (JHU), Oana-Diana Postolache (Saarland). **2005:** Victoria Fossum (Michigan), Mark Hopkins (UCLA), Liang Huang (Penn), Behrang Mohit (Pitt), Preslav Nakov (Berkeley), Jason Riesa (JHU), Hao Zhang (Rochester). **2004:** Madhur Ambastha (Rochester), Michel Galley (Columbia), David Kauchak (UCSD). **2003:** Michel Galley (Columbia), Mark Hopkins (UCLA), Beata Klebanov (Hebrew University), Ana-Maria Popescu (University of Washington), Lara Taylor (UCSD). **2002:** Chris Ackerman (USC), Emil Ettelaie (USC), Yuling Hsueh (USC), John Lee (Waterloo/MIT), Bo Pang (Cornell). **2001:** Abdessamad Echihabi (USC), Hal Daume (CMU), Michael Laszlo (Waterloo), Dragos Stefan Munteanu (Iowa), Rebecca Rees (BYU), Radu Soricut (Iowa).

Honors

- Fellow of ACL (Association for Computational Linguistics), 2014-.
- Fellow of AAAI (Association for the Advancement of Artificial Intelligence), 2014-.
- USC/Information Sciences Institute: Institute Achievement Award, 2014.
- Outstanding Paper Award, “Recurrent Neural Networks as Weighted Language Recognizers” (Y. Chen, S. Gilroy, A. Maletti, J. May, and K. Knight), Proceedings of the Conference of the North American Association for Computational Linguistics (NAACL), 2018.
- Best Demo Award, “Out-of-the-Box Universal Romanization Tool *uroman*” (U. Hermjakob, J. May, and K. Knight), Proceedings of the Conference of the Association for Computational Linguistics (ACL), Demonstrations Track, 2018.
- Best Demo Award, “Hafez: an Interactive Poetry Generation System” (M. Ghazvininejad, X. Shi, J. Priyadarshi, and K. Knight), Proceedings of the Conference of the Association for Computational Linguistics (ACL), Demonstrations Track, 2017.
- Best Paper Award, “11,001 New Features for Statistical Machine Translation” (D. Chiang, K. Knight, and W. Wang), Proceedings of the Conference of the North American Association for Computational Linguistics (NAACL), 2009.
- Best Paper Award, “Fast Decoding and Optimal Decoding for Machine Translation” (U. Germann, M. Jahr, K. Knight, D. Marcu, and K. Yamada), Proceedings of the Conference of the Association for Computational Linguistics (ACL), 2001.
- Outstanding Paper Award, “Statistics-Based Summarization—Step One: Sentence Compression,” (K. Knight and D. Marcu), National Conference on Artificial Intelligence (AAAI), 2000.
- ISI Meritorious Service Award, for outstanding work in web-based research-software distribution, 2001.
- Fellow of ISI (USC Information Sciences Institute), 2006.
- Harvard University, Certificate of Distinction in Teaching, Committee on Undergraduate Education, 1984.

Patents Awarded

- “System and Method for Capitalizing Machine Translated Text” (W. Wang, K. Knight, and D. Marcu), US 8886518, issued November 11, 2014.
- “Modification of Annotated Bilingual Segment Pairs in Syntax-based Machine Translation” (W. Wang, J. May, and K. Knight), US 8825466, issued September 2, 2014.
- “Training for a Text-to-text Application which Uses String to Tree Conversion for Training and Decoding” (K. Knight, M. Galley, M. Hopkins, D. Marcu, I. Thayer), US 8600728, issued December 2, 2013.
- “Building a Translation Lexicon from Comparable, Non-parallel Corpora” (D. Marcu, K. Knight, D. Munteanu, P. Koehn), US 8234106, issued July 31, 2012.
- “Syntax-based Statistical Translation Model” (K. Yamada and K. Knight), US 8214196, issued July 3, 2012.

- “Identifying Documents which form Translated Pairs, within a Document Collection” (I. Muslea, K. Knight, D. Marcu), US 7813918, issued October 12, 2010.
- “Training Tree Transducers for Probabilistic Operations” (J. Graehl and K. Knight), US 7698125, issued April, 13, 2010.
- “Named Entity Translation” (Y. Al-Onaizan and K. Knight), US 7580830, issued August 25, 2009.
- “Adapter for Allowing both Online and Offline Training of a Text to Text System” (K. Yamada, G. Langmead), US 7624020, issued November 24, 2009.
- “Statistical Machine Translation” (P. Koehn and K. Knight), US 7624005, issued November 24, 2009.
- “Constructing a Translation Lexicon from Comparable, Non-Parallel Corpora” (D. Marcu, K. Knight, D. Munteanu, and P. Koehn), US 7620538, issued November 17, 2009.
- “Phrase to Phrase Joint Probability Model for Statistical Machine Translation” (D. Marcu, W. Wong, K. Knight, and P. Koehn), US 7454326, issued November 18, 2008.
- “Task Parallelization in a Text-to-Text System” (G. Langmead, K. Yamada, K. Knight, and D. Marcu), US 7389222, issued June 17, 2008.
- “Statistical Translation Using a Large Monolingual Corpus” (R. Soricut, D. Marcu, and K. Knight), US 7340388, issued March 4, 2008.
- “Named Entity Transliteration” (Y. Al-Onaizan and K. Knight), US 7249013, issued July 24, 2007.
- “Integer Programming Decoder for Machine Translation” (K. Knight and K. Yamada), US 7177792, issued February 13, 2007.

Publications

Books

- *Artificial Intelligence, Second Edition* (E. Rich and K. Knight), McGraw-Hill Book Company, 1991.

Journal Articles

- “Humans Outperform Machines at the Bilingual Shannon Game” (M. Ghazvininejad and K. Knight), *Entropy* 19(1), 2017.
- “Incident-Driven Machine Translation and Name Tagging for Low-resource Languages” (U. Hermjakob, Q. Li, D. Marcu, J. May, S. J. Mielke, N. Pourdamghani, M. Pust, X. Shi, K. Knight, T. Levinboim, K. Murray, D. Chiang, B. Zhang, X. Pan, D. Lu, Y. Lin, and H. Ji), *Machine Translation*, 2017.
- “From Image to Translation: Processing the Endangered Nyushu Script” (T. Zhang, A. Chowdhury, N. Dhulekar, J. Xia, K. Knight, H. Ji, B. Yener, L. Zhao), *ACM Transactions on Asian and Low-Resource Language Information Processing*, 15(4), 2016.
- “The Secrets of the Copiale Cipher,” (K. Knight, B. Megyesi, and C. Schaefer), *Journal of Research into Freemasonry and Fraternalism*, 2(2), 2012.
- “Does GIZA++ Make Search Errors?” (S. Ravi and K. Knight), *Computational Linguistics*, 36(3), 2010.
- “Re-structuring, Re-labeling, and Re-aligning for Syntax-Based Statistical Machine Translation,” (W. Wang, J. May, K. Knight, and D. Marcu), *Computational Linguistics*, 36(2), 2010.

- “Binarization of Synchronous Context-Free Grammars,” (L. Huang, H. Zhang, D. Gildea, and K. Knight), *Computational Linguistics*, 35(4), 2009.
- “The Power of Extended Top-Down Tree Transducers,” (A. Maletti, J. Graehl, M. Hopkins, and K. Knight), *SIAM J. Comput.*, 39(2), 2009.
- “Attacking Decipherment Problems Optimally with Low-Order N-gram Models,” (S. Ravi and K. Knight), *Cryptologia*, 33(4), 2009.
- “Training Tree Transducers,” (J. Graehl, K. Knight, and J. May), *Computational Linguistics*, 34(3), 2008.
- “Capturing Practical Natural Language Transformations,” (K. Knight), *Machine Translation*, 21(2), 2007.
- “Discovering the Linear Writing Order of a Two-Dimensional Ancient Hieroglyphic Script,” (Shou-de Lin and K. Knight), *Artificial Intelligence*, 170(4-5), 2006.
- “Translation with Scarce Bilingual Resources,” (Y. Al-Onaizan, U. Germann, U. Hermjakob, K. Knight, P. Koehn, D. Marcu, K. Yamada), *Machine Translation*, 2003.
- “Fast Decoding and Optimal Decoding for Machine Translation,” (U. Germann, M. Jahr, K. Knight, D. Marcu, and K. Yamada), *Artificial Intelligence*, 2003.
- “Summarization Beyond Sentence Extraction: A Probabilistic Approach to Sentence Compression,” (K. Knight and D. Marcu), *Artificial Intelligence*, 139(1), 2002.
- “Decoding Complexity in Word-Replacement Translation Models,” (K. Knight), *Computational Linguistics*, 25(4), 1999.
- “Mining Online Text,” *Communications of the ACM*, (K. Knight), 42(11), 1999.
- “Machine Transliteration,” (K. Knight and J. Graehl), *Computational Linguistics* 24(4), 1998.
- “Integrating Knowledge Acquisition and Language Acquisition,” (K. Knight), *Applied Intelligence*, 1(1), 1992.
- “Connectionist Ideas and Algorithms,” *Communications of the ACM*, 33(11), November, 1990.
- “Knowledge and Natural Language Processing,” (J. Barnett, K. Knight, I. Mani, and E. Rich), *Communications of the ACM*, 33(8), August, 1990.
- “Unification: A Multidisciplinary Survey,” (K. Knight), *ACM Computing Surveys*, 21(1), March, 1989.

Refereed Conference Papers

- “Multi-lingual Common Semantic Space Construction via Cluster-consistent Word Embedding” (L. Huang, K. Cho, B. Zhang, H. Ji and K. Knight), Proc. EMNLP, 2018.
- “Modeling Naive Psychology of Characters in Simple Commonsense Stories” (H. Rashkin, A. Bosselut, M. Sap, K. Knight, and Y. Choi), Proc. ACL, 2018.
- “Paper Abstract Writing through Rewriting Mechanism” (Q. Wang, Z. Zhou, L. Huang, S. Whitehead, B. Zhang, H. Ji and K. Knight), Proc. ACL, 2018.
- “Translating a Language You Don’t Know in the Chinese Room” (U. Hermjakob, J. May, M. Pust, and K. Knight), Proc. ACL, Demo Track, 2018.
- “Out-of-the-Box Universal Romanization Tool uroman” (U. Hermjakob, J. May, and K. Knight), Proc. ACL, Demo Track, 2018.

- “Neural Poetry Translation” (M. Ghazvininejad, Y. Choi, and K. Knight), Proc. NAACL, 2018.
- “ELISA-EDL: A Cross-Lingual Entity Extraction, Linking and Localization System” (B. Zhang, Y. Lin, X. Pan, D. Lu, J. May, K. Knight, and H. Ji), Proc. NAACL, Demo Track, 2018.
- “Using Word Vectors to Improve Word Alignments for Low Resource Machine Translation” (N. Pourdamghani, M. Ghazvininejad, and K. Knight), Proc. NAACL, 2018.
- “Recurrent Neural Networks as Weighted Language Recognizers” (Y. Chen, S. Gilroy, A. Maletti, J. May, and K. Knight), Proc. NAACL, 2018.
- “Abstract Meaning Representation of Constructions: The More We Include, the Better the Representation” (C. Bonial, B. Badarau, K. Griffitt, U. Hermjakob, K. Knight, T. O’Gorman, M. Palmer, and N. Schneider), Proc. LREC, 2018.
- “Deciphering Related Languages” (N. Pourdamghani and K. Knight), Proc. EMNLP, 2017.
- “Hafez: an Interactive Poetry Generation System” (M. Ghazvininejad, X. Shi, J. Priyadarshi, and K. Knight), Proc. ACL Demonstrations Track, 2017.
- “Speeding up Neural Machine Translation Decoding by Shrinking Run-time Vocabulary” (X. Shi and K. Knight), Proc. ACL, 2017.
- “Cross-lingual Name Tagging and Linking for 282 Languages” (X. Pan, B. Zhang, J. May, J. Nothman, K. Knight and H. Ji), Proc. ACL, 2017.
- “Team ELISA System for DARPA LORELEI Speech Evaluation 2016” (P. Papadopoulos, R. Travadi, C. Vaz, N. Malandrakis, U. Hermjakob, N. Pourdamghani, M. Pust, B. Zhang, X. Pan, D. Lu, Y. Lin, O. Glembek, M. Karthick B, M. Karafiat, L. Burget, M. Hasegawa-Johnson, H. Ji, J. May, K. Knight, and S. Narayanan), Proc. Interspeech, 2017.
- “Generating Topical Poetry” (M. Ghazvininejad, X. Shi, Y. Choi, and K. Knight), Proc. EMNLP, 2016.
- “Why Neural Translations are the Right Length” (X. Shi, K. Knight, and D. Yuret), Proc. EMNLP, 2016.
- “Does String-Based Neural MT Learn Source Syntax?” (X. Shi, I. Padhi, and K. Knight), Proc. EMNLP, 2016.
- “Transfer Learning for Low-Resource Neural Machine Translation” (B. Zoph, D. Yuret, J. May, and K. Knight), Proc. EMNLP, 2016.
- “Generating English from Abstract Meaning Representation” (N. Pourdamghani and K. Knight), Proc. INLG, 2016.
- “Grapheme-to-Phoneme Models for (Almost) Any Language” (A. Deri and K. Knight), Proc. ACL, 2016.
- “A Multi-media Approach to Cross-lingual Entity Knowledge Transfer” (D. Lu, X. Pan, N. Pourdamghani, H. Ji, S.-F. Chang and K. Knight), Proc. ACL, 2016.
- “Multi-Source Neural Translation” (B. Zoph and K. Knight), Proc. NAACL, 2016.
- “Simple, Fast Noise Contrastive Estimation for Large RNN Vocabularies” (B. Zoph, A. Vaswani, J. May, and K. Knight), Proc. NAACL, 2016.
- “Name Tagging for Low-Resource Incident Languages Based on Expectation-Driven Learning” (B. Zhang, X. Pan, T. Wang, A. Vaswani, H. Ji, K. Knight, and D. Marcu), Proc. NAACL, 2016.

- “Extracting Structured Scholarly Information from the Machine Translation Literature” (E. Choi, M. Horvat, J. May, K. Knight, D. Marcu), Proc. LREC, 2016.
- “Parsing English into Abstract Meaning Representation Using Syntax-Based Machine Translation” (M. Pust, U. Hermjakob, K. Knight, D. Marcu, and J. May), Proc. EMNLP, 2015.
- “How Much Information Does a Human Translator Add to the Original?” (B. Zoph, M. Ghazvininejad, and K. Knight), Proc. EMNLP, 2015.
- “Unifying Bayesian Inference and Vector Space Models for Improved Decipherment” (Q. Dou, A. Vaswani, K. Knight, and C. Dyer), Proc. ACL, 2015.
- “How to Make a Frenemy: Multitape FSTs for Portmanteau Generation” (A. Deri and K. Knight), Proc. NAACL, 2015.
- “How to Memorize a Random 60-Bit String” (M. Ghazvininejad and K. Knight), Proc. NAACL, 2015.
- “Unsupervised Entity Linking with Abstract Meaning Representation” (X. Pan, T. Cassidy, U. Hermjakob, H. Ji, and K. Knight), Proc. NAACL, 2015.
- “Mapping between English Strings and Reentrant Semantic Graphs” (F. Braune, D. Bauer, and K. Knight), Proc. LREC, 2014.
- “How to Speak a Foreign Language without Knowing It” (X. Shi, K. Knight, and H. Ji), Proceedings of the Conference of the Association for Computational Linguistics (ACL), 2014.
- “Be Appropriate and Funny: Automatic Entity Morph Encoding” (B. Zhang, H. Huang, X. Pan, H. Ji, K. Knight, Z. Wen, Y. Sun, J. Han, B. Yener), Proceedings of the Conference of the Association for Computational Linguistics (ACL), 2014.
- “Aligning Context-based Statistical Models of Language with Brain Activity During Reading” (L. Wehbe, A. Vaswani, K. Knight and T. Mitchell), Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2014.
- “Aligning English Strings with Abstract Meaning Representation Graphs” (N. Pourdamghani, Y. Gao, U. Hermjakob and K. Knight), Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2014.
- “Beyond Parallel Data: Joint Word Alignment and Decipherment Improves Machine Translation” (Q. Dou, A. Vaswani and K. Knight), Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2014.
- “Cipher Type Detection” (M. Nuhn and K. Knight), Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2014.
- “Dependency-Based Decipherment for Resource-Limited Machine Translation” (Q. Dou and K. Knight), Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2013.
- “Smatch: an Evaluation Metric for Semantic Feature Structures,” (S. Cai and K. Knight), Proceedings of the Conference of the Association for Computational Linguistics (ACL), 2013.
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