

Edward John Briscoe

Professor of Computational Linguistics
Professorial Fellow, Girton College

Academic Qualifications

English/Philosophy/Linguistics, B.A. (Hons.), University of Lancaster, UK,
1980

Linguistics, M.Phil., University of Cambridge, UK, 1981

Linguistics, Ph.D., University of Cambridge, UK, 1984

Posts held

Professor of Computational Linguistics, Computer Laboratory, University of
Cambridge, UK (2004–now)

Reader in Computational Linguistics, Computer Laboratory, University of
Cambridge, UK (2000–2004)

University Lecturer, Computer Laboratory, University of Cambridge, UK
(1988–2000 (on unpaid leave 1990–1996)).

Visiting Researcher, Institute for Research in Cognitive Science, University of
Pennsylvania, USA (1994–1996, as part of EPSRC Advanced Fellowship).

Research Scientist, Xerox European Research Centre, Grenoble Laboratory,
France (1993–1994).

EPSRC Advanced Research Fellow, Computer Laboratory, University of
Cambridge, UK (1990–1996).

Lecturer, Dept. of Linguistics, University of Lancaster, UK (1985–1988).

SERC Information Technology Research Fellow, Computer Laboratory,
University of Cambridge, UK (1984–1985).

Research Interests

Computational Linguistics

Natural Language Processing

Textual Information Management

Specific areas of (current) research:

automated assessment and tutoring of writing for learners;
(nearly-)deterministic, statistical, and robust parsing techniques;
text classification, filtering and mining using linguistic features;
textual information extraction from scientific articles;
acquiring lexical information from on-line text and dictionaries;
exploiting punctuation and document structure during parsing;
models of human language learning and parsing;
evolutionary simulation of language development and change.

Teaching & Associated Administration

- 1990-2010, 2yr appts. every 6yrs** Admissions Tutor, M.Phil, Speech and Language Processing, Cambridge University
- 1990-2010, 2yr appts. every 6yrs** Course Examiner, M.Phil, Speech and Language Processing, Cambridge University
- 1990-93,97-2001** Natural Language Processing, 3rd Yr. CS Tripos, Cambridge University
- 1997-2001** Syntactic and Semantic Analysis, M.Phil, Cambridge University
- 2000-now** Introduction to Linguistics, M.Phil, Cambridge University
- 2000-now** Statistical Natural Language Processing, M.Phil, Cambridge University
- 2010-now** Machine Learning for Language Processing, M.Phil, Cambridge University
- 1989-now** PhD Supervision, Cambridge University; to date, sixteen students who I supervised have successfully obtained doctorates (no failures); and I am currently supervising six
- 1989-now** M.Phil/CS Tripos Project Supervision, Cambridge University, to date, I have supervised around 50 dissertations to successful completion
- 1996-97,2004-06,08-11** Member, Dept. Degree Committee (which admits, administers and awards degrees to graduate students)
- 1996-98,2004-06** Member, University Computer Syndicate (which oversees departmental and computing service matters)
- 1996-98, 2008-2012** Member, Dept. Appointments Committee (which oversees appts. and promotions)
- 1999-2012** Member/Chair Dept. Library Committee (which oversees library administration and policy)
- 2000-2010** Codirector/Director, M.Phil in Computer Speech, Text and Internet Technology
- 2003-2007** Member, General Board Committee on Libraries
- 2005-2011** Member, Appointments Committee, Research Centre for English and Applied Linguistics
- 2005-2008** Member, Management Committee, Centre for Applied Research in Educational Technology
- 2007-2009** Chair, Cambridge Institute for Language Research
- 2008-2011** Member/Chair, Faculty Senior Promotions Committee
- 2009-now** Member, Management Committee for M.Phil in Advanced Computer Science
- 2009-2011** Chief Examiner, M.Phil in Advanced Computer Science
- 2010-2011** Admissions Officer, M.Phil in Advanced Computer Science
- 2012-now** Member, Girton College Council

Associated Professional Experience

Principal/Co-Investigator (Externally-funded projects):

1. A Computational Grammar of English, Alvey/SERC, £150k, CI, 1985-88
2. Automatic Speech Recognition Using Advanced Pattern Matching Algorithms, Alvey/SERC, £200k, CI, 1985-88
3. Extended Development of the Alvey Natural Language Tools, DTI-IED/SERC, £180k, PI, 1989-92
4. Acquisition of Lexical Knowledge for Natural Language Processing Systems (ACQUILEX), Esprit-BRA, £250k, PI, 1989-92
5. Lexical Segmentation of Realistically Imperfect Speech, MRC/SERC/ESRC, £180k, CI, 1990-93
6. Prosodic and Post-lexical Phonological Processing, MRC/SERC/ESRC, £220k, CI, 1991-94
7. The Integrated Language Database, DTI-SALT/EPSRC, £180k, PI, 1994-96
8. Shallow Parsing and Knowledge Extraction for Language Engineering (SPARKLE) EC-LRE, £350k, PI, 1995-98
9. Computer Speech, Text and Internet Technology (CSTIT), Masters training Package, EPSRC, £500k, CI, 2000-2005
10. Robust Accurate Statistical Parsing (RASP), EPSRC, £156k, 2001-04
11. Integrating Literature, Experiments and Curation in Drosophila Genomics Research, BBSRC, BEP-II, £497k, PI, 2004-08
12. Accurate and Comprehensive Lexical Classification for Natural Language Processing Applications (ACLEX) EPSRC, £207k, PI, 2005-08
13. Scalable and Robust Grid-based Text Mining of Scientific Papers, STFC, PIPSS, £85k, CI, 2008-09
14. The Alta Institute, Cambridge Assessment, £3M, PI, 2013-19

Coordinator (Externally-funded EC projects):

Acquisition of Lexical Knowledge (ACQUILEX-II), Esprit-BR, £750k, 1992-95

Teaching at Summer Schools (Invited Courses):

- 1988** European Science Foundation Summer School on Computational Linguistics, Pisa, Computational Lexicology and Lexicography
- 1994** European Summer School in Language, Logic and Information, Copenhagen, Robust Parsing
- 1996** European Summer School in Language, Logic and Information, Prague, Workshops on Machine Learning and Robust Parsing
- 2014** Topics in Evolutionary Linguistics, Paris, École Nationale Supérieure

Consultancy / Industry:

1. SRI (Cambridge) 1989-91, grammar development
2. Toby Churchill Ltd 1991-94, augmentative and assistive communication
3. European Commission, Luxembourg, 1992-93, UK representative on LRE programme proposals evaluation committees
4. Cambridge University Press (Dictionaries) 1991-94,97, lexical database development and corpus processing tools
5. Volantia, 2001-2002, Technical Advisory Board
6. Cymfony, Intelligent Information Extraction, 2000-2008, Technical Advisory Board
7. Cofounder and Director, iLexIR Ltd, 2003-now, a NLP consultancy and technology provider
8. European Commission Projects, Advisory Boards, Semantically-Enabled Knowledge Technologies (SEKT, 2004-6), Medical Information Analysis and Retrieval (Khresmoi, 2010-14)
9. Cofounder and Director, Camtology Ltd, 2008-2011, an integrated text and image categorization and search company
10. Technical Advisor, TouchType / SwiftKey Ltd, 2009-2016, a predictive text entry technology provider
11. Cofounder and Director, English Language iTutoring Ltd, 2015-now, a cloud-based provider of advanced educational technology for language learning
12. Cytora, Information Extraction for Real-time Risk Assessment, 2016-, Technical Advisory Board
13. All Street, Company Investment Reports, 2016-, Technical Advisory Board
14. ThoughtRiver, Legal Contract Triage, 2016-, Technical Advisor

Selected Invited Talks (1991-now):

- 1991** Esprit Conference, Symposium on NLP, Brussels, *Lexical issues in natural language processing*
- 1992** Academy of Sciences, Berlin, *Translation links in a typed unification-based theory of the lexicon*
- 1993** SEPLN Conference, Santiago de Compostela, Spain, *Robust statistical parsing techniques*
- 1993** Universals in the Lexicon, Schloss Dagstuhl, Germany, *Blocking and Defaults*
- 1994** Esprit/DARPA Workshop on the Lexicon, Pisa, *Semi-productive sense extension*
- 1994** Iberamia-94 Conference, Caracas, *Order independent and persistent typed default unification*
- 1995** IEEE Signal Processing Society 1995 Workshop on Automatic Speech Recognition, Snowbird, Utah, *Statistical Language Modelling or Parse Decision Models for Natural Language Understanding?*

- 1996 Max Planck Workshop on Underspecification, Berlin,
Underspecification and defaults in lexical semantic representation
- 1997 8th Computational Linguistics in the Netherlands Conference,
Nijmegen, *Language as a Complex Adaptive System*
- 1998 16th Machine Intelligence Workshop, York *The Acquisition of
Grammar in an Evolving Population of Language Agents*
- 1999 Learning Language in Logic Workshop (at ICML99), Bled,
Slovenia, *Bayesian Learning of (Stochastic) Grammars*
- 2000 6th Diachronic Investigations in Generative Syntax Conference, U.
Maryland, *Logistic Patterns of Language Change*
- 2000 Symposium on the Origins of Semiosis, University of San Marino,
Coevolution of Language and the Language Faculty
- 2001 13th Amsterdam Colloquium, *Coevolutionary models of languages
and the language faculty*
- 2002 14th Beckman Frontiers of Science Symposium, National Academy
of Sciences, Irvine CA, *The Interaction of Language Learning and
Evolution*
- 2003 Cambridge University ICT Horizon Seminar, *Text Mining via
Statistical Natural Language Processing*
- 2004 7th Annual Computational Linguistics in the UK Conference,
*Stochastic Computational Simulations of Languages as Complex
Adaptive Systems*
- 2004 National E-science Centre Workshop on E-science and Data
Mining, Edinburgh, *Statistical Parsing for Text Mining from
Scientific Articles*
- 2005 1st UK-NL Workshop on Language Evolution: Formal Modelling
meets Empirical Data, Amsterdam, *Grammatical assimilation in
language evolution: theoretical feasibility and empirical predictions*
- 2006 GIACS (General Integration of Applications of Complexity in
Science) Workshop on Language Simulation, Warsaw, *Simulating
iterated language learning and (thus) language change*
- 2007 8th Computational Linguistics in the Netherlands Conference,
Nijmegen, *Symbolic or Statistical?: Approaches to Practical Robust
Parsing*
- 2008 1st International Workshop on Automated Syntactic Annotations
for Interoperable Language Resources, Hong Kong, *Making the
RASP System more Interoperable*
- 2008 Ernst Strungmann Forum, Int. Symposium on Biological
Foundations and Origins of Syntax, Frankfurt, *What can formal or
computational models tell us about how (much) language shaped the
brain?*
- 2008 Royal Statistical Society, Symposium on Text Mining, London, and
Dagstuhl Seminar, Ontologies and Text Mining for Life Sciences
*Bootstrapping an interactive information extraction system for
FlyBase curation*

- 2009 Palo Alto Research Centre, California, *Automated Assessment of EFL Examination Scripts*
- 2009 7th Brazilian Symposium in Information and Human Language Technology (STIL09), Sao Carlo, Brazil, *Learning Language, Evolving Languages*
- 2010 American Association for Advancement of Science, Annual Meeting, San Diego, *Making the World's Scientific Information (More) Organized, Accessible, and Usable*
- 2011 Dagstuhl Invited Seminar, Challenges in Document Mining, April, *Unsupervised Entailment Detection for IE Query Expansion*
- 2011 EPSRC Network on Vision and Language Annual Workshop, *Integrating textual information extraction and visual similarity search for biomedical research papers*
- 2012 Guest Lecture, TouchType Ltd. (SwiftKey), London, *Evolutionary Linguistics and Predictive Language Modelling*
- 2013 Cambridge English, Centenary Conference, Cambridge, *Insights from computational linguistics in teaching and assessing written English*
- 2014 Open University Workshop on Automated Feedback for Short Essay Answers, *Improving Cambridge English Write & Improve*
- 2015 eLex Conference, Herstmonceux Castle, Invited Talk, *The Use of Lexical Resources in Cambridge English Write & Improve*
- 2016 Cambridge English South Asia Partnership Summit, New Delhi, Invited Talk, *Using Machine Learning to Transform the Language Learning Landscape*

Reviewing, Refereeing etc:

- Journals** *Computer Speech and Language* Editor, 2001-now, Editorial Boards, *Natural Language Engineering*, 1994-2012; *Computational Linguistics*, 1992-95; *Lingua*, 2003-06
- Programme Committees** Area Chairs: 5th European Association for Computational Linguistics, Utrecht, 1993; 32nd Association for Computational Linguistics, Las Cruces, New Mexico, 1994; 35th Association and 8th European Association for Computational Linguistics, Madrid, Spain, 1997; 1st, 2nd, 3rd, 4th, 5th and 6th International Conferences on Language Evolution, 1996 – 2010 and most years for ACL, LREC and Coling conferences and workshops
- Publishers** CUP, OUP, Addison-Wesley, Lawrence Erlbaum, etc.
- Research Councils** 1991-now; EPSRC, EU-FP2-7, ESF, BBSRC, ESRC, MRC, NSF, SFI, FNSNF, ERC

Advisory Bodies:

- 1992-1994 National Representative (Academic), Eur. Linguistic Research and Engineering Programme, Evaluation Committee
- 1996 Programme Committee and Organiser of Language and Computation Courses for European Summer School in Language, Logic and Information, Prague, August 1996

- 1997** Programme Committee and Organiser of Natural Language Processing Courses for European Language and Speech Network, Summer School, Barcelona, August 1997
- 1997-2000, 2003-2005, 2011-now** Member, Engineering and Physical Science Research Council (EPSRC) Computing College, for evaluation of grant proposals
- 2010-2012** Member, European Science Foundation Pool of Reviewers
- 2005-now** Member, Computational Linguistics in the UK (CLUK) Steering Committee

Professional Affiliations:

- 1985–now** Member, Association for Computational Linguistics
- 1994–now** Member, Linguistic Society of America

Selected Publications

- Boguraev, B.K. and E.J. Briscoe (1989, eds.) *Computational Lexicography for Natural Language Processing*, Longman, London.
- Briscoe, E.J. (1987) *Modelling Human Speech Comprehension: A Computational Approach*, Chichester, UK: Ellis Horwood / New York: Wiley.
- Briscoe, E.J. (2002, ed.) *Linguistic evolution through language acquisition: formal and computational models*, Cambridge University Press, Cambridge.
- Briscoe, E.J., A.A. Copestake and V. de Paiva (eds.) (1993, eds.) *Defaults, Inheritance and the Lexicon*, Cambridge University Press.

Internationally Refereed Journal Articles

- Boguraev, B. & Briscoe, E. (1987) ‘Large lexicons for natural language processing: utilising the grammar coding system of the *Longman Dictionary of Contemporary English*’, *Computational Linguistics*, vol.13.4, 219–240.
- Briscoe, E.J. (1999) ‘The Acquisition of Grammar in an Evolving Population of Language Agents’, *Electronic Trans. of Art. Intelligence (Special Issue: Machine Intelligence, 16. (ed) Muggleton, S., vol. Vol 3(B), www.etaij.org*, 44–77.
- Briscoe, E.J. (2000) ‘Grammatical Acquisition: Inductive Bias and Coevolution of Language and the Language Acquisition Device’, *Language*, vol.76.2, 245–296 (125 citations).
- Briscoe, E.J. (2008) ‘Language Learning, Power Laws, and Sexual Selection’, *Mind and Society*, vol.7.1, 65–76.
- Briscoe E. J. and J. Carroll (1993) ‘Generalised probabilistic LR parsing of natural language (corpora) with unification-based grammars’, *Computational Linguistics*, vol.19.1, 25–60 (338 citations).
- Briscoe, E.J. and A.A. Copestake (1999) ‘Lexical Rules in Constraint-based Grammars’, *Computational Linguistics*, vol.25.4, 487–526.

- Calzolari, N. and E.J. Briscoe (1995) 'Acquilex I and II: acquisition of lexical knowledge from machine-readable dictionaries and text corpora', *Cahiers de Lexicographie*, vol.LXVII.2, 95–114.
- Copetake, A.A. and E.J. Briscoe (1995) 'Semi-productive polysemy and sense extension', *Journal of Semantics*, vol.12, 15–67.
- Copetake A.A, E.J. Briscoe, P. Vossen, A. Ageno, I. Castellon, F. Ribas, G. Rigau, H. Rodriguez, A. Samiotou (1995) 'Acquisition of Lexical Translation Relations from MRDs', *Journal of Machine Translation*, vol.9.3, 183–219.
- Karamanis, N., R. Seal, I. Lewin, P. McQuilton, A. Vlachos, C. Gasperin, R. Drysdale, and E.J. Briscoe (2008) 'Natural Language Processing in aid of FlyBase curators', *BMC Bioinformatics*, vol.9, 193–205.
- Lascarides, A., E.J. Briscoe, A.A. Copetake and N. Asher (1996) 'Order-independent and persistent default unification', *Linguistics and Philosophy*, vol.19.1, 1–89.
- Lascarides, A., A.A. Copetake and E.J. Briscoe (1996) 'Ambiguity and Coherence', *Journal of Semantics*, vol.13, 41–65.
- McQueen, J., A. Cutler, E.J. Briscoe and D. Norris (1995) 'Models of continuous speech recognition', *Language and Cognitive Processes*, vol.10.3, 309–332.

Internationally Refereed Conference / Workshop Proceedings

- Andersen, O., J. Nioche, E.J. Briscoe, J. Carroll (2008) 'The BNC parsed with RASP4UIMA', *Proceedings of the 6th Int. Conf. on Language Resources and Evaluation (LREC)*, Marrakech, Morocco.
- Boguraev, B.K., J. Carroll, E.J. Briscoe and C. Grover (1988) 'Software support for practical grammar development', *Proceedings of the 12th Int. Conf. on Comp. Ling.*, Budapest, Hungary, pp. 54–58.
- Briscoe, E.J. (1987) 'Deterministic parsing and unbounded dependencies', *Proceedings of the 3rd Eur. Assoc. for Comp. Ling.*, Copenhagen, pp. 211–218.
- Briscoe, E.J. (1989) 'Lexical access in connected speech recognition', *Proceedings of the 27th Assoc. for Comp. Ling.*, Vancouver, pp. 84–90.
- Briscoe, E.J. (1996) 'The syntax and semantics of punctuation and its use in interpretation', *Proceedings of the ACL SIGPARSE Workshop on Punctuation in Computational Linguistics*, Morgan Kaufmann, pp. 1–8.
- Briscoe, E.J. (1997) 'Co-evolution of language and of the language acquisition device', *Proceedings of the 35th Assoc. for Comp. Ling.*, Morgan Kaufmann, pp. 418–427.
- Briscoe, E.J. (1998) 'Language as a complex adaptive system: co-evolution of language and of the language acquisition device ' in (eds) Coppen, P., van Halteren, H. and Teunissen, L. (eds.), *8th Meeting of Comp. Linguistics in the Netherlands*, Rodopi, Amsterdam, pp. 3–40.
- Briscoe, E.J. (2001) 'From dictionary to corpus to self organising dictionary: Learning valency associations in the face of variation and change', *Proceedings of the Corpus Linguistics 2001 (CL2001)*, Lancaster University, <http://www.comp.lancs.ac.uk/ucrel/cl2000.html>.

- Briscoe, E.J. (2006) 'Language learning, power laws, and sexual selection' in Cangelosi, A., Smith, M., and Smith, K. (eds.), *Proc. of 6th Int. Conf. on Evolution of Language (EVOLANG6)*, World Scientific, London, pp. 19–26.
- Briscoe, E.J. and B.K. Boguraev (1984) 'Control structures and theories of interaction in speech understanding systems', *Proceedings of the 10th Int. Conf. on Comp. Ling.*, Stanford, Ca., pp. 259–266.
- Briscoe, E.J. and Buttery, P. (2008) 'Linguistic Adaptions for Resolving Ambiguity', *Proceedings of the The Evolution of Language: 7th International Conference (EVOLANG7)*, World Scientific Press.
- Briscoe, E.J. and J. Carroll (1995) 'Developing and Evaluating a Probabilistic LR Parser of Part-of-Speech and Punctuation Labels', *Proceedings of the 4th Int. Workshop on Parsing Technologies (IWPT95)*, Prague / Karlovy Vary, Czech Republic, pp. 48–58.
- Briscoe, E.J. and J. Carroll (2002) 'Robust accurate statistical annotation of general text', *Proceedings of the 3rd Int. Conf. on Language Resources and Evaluation (LREC)*, Las Palmas, Gran Canaria, pp. 1499–1504.
- Briscoe, E.J. and J. Carroll (2006) 'Evaluating the Accuracy of an Unlexicalized Statistical Parser on the PARC DepBank', *Proceedings of the ACL-COLING 2006 Main Conf. Poster Session*, Sydney, Australia, pp. 41–48.
- Briscoe, E.J., J. Carroll and R. Watson (2006) 'The Second Release of the RASP System', *Proceedings of the ACL-COLING 2006 Interactive Presentation Session*, Sydney, Australia, pp. 77–80.
- Briscoe, E.J. and A. Copestake (1996) 'Controlling the application of lexical rules', *Proceedings of the ACL SIGLEX Workshop on Breadth and Depth of Semantic Lexicons*, Morgan Kaufmann, pp. 7–19.
- Briscoe, E.J., A.A Copestake and B.K. Boguraev (1990) 'Enjoy the paper: lexical semantics via lexicology', *Proceedings of the 13th Int. Conf. on Comp. Ling. (COLING 1990)*, Helsinki, pp. 42–47.
- Briscoe, E., J. Carroll, J. Graham and A. Copestake (2002) 'Relational evaluation schemes', *Proceedings of the LREC'02 Workshop, Beyond PARSEVAL: Towards Improved Evaluation Measures for Parsing Systems*, Gran Canaria.
- Briscoe, E.J., C. Grover, B.K. Boguraev and J. Carroll (1987) 'A formalism and environment for the development of a large grammar of English', *Proceedings of the 10th Int. Joint Conf. on Artificial Intelligence (IJCAI 1987)*, Milan, Italy, pp. 703–708.
- Briscoe, E.J., Harrison, K., Naish-Guzman, A., Parker, A., Siddharthan, A., Sinclair, D., Slater, M., Watson, R. (2010) 'Camtology: Intelligent Information Access for Science', *Proceedings of the NAACL HLT 2010: Demonstration Session*, Los Angeles, CA, pp. 1–4.
- Briscoe, E.J. and N. Waegner (1992) 'Robust stochastic parsing using the inside-outside algorithm', *Proceedings of the AAAI Workshop on Probabilistically-Based NLP Techniques*, San Jose, Ca, pp. 39–53.
- Bryant, C M. Felice, and E.J. Briscoe (2017) 'Automatic Annotation and Evaluation of Error Types for Grammatical Error Correction', *Proceedings of the ACL*, Vancouver.

- Buttery, P. and E.J. Briscoe (2004) 'The Significance of Errors to Parametric Models of Language Acquisition', *Proceedings of the AAAI Spring Symposium on Language Learning: An Interdisciplinary Perspective*, Stanford, Ca. (Technical Report SS-04-05), pp. 15–20.
- Carroll, J. and E.J. Briscoe (1992) 'Probabilistic normalisation and unpacking of packed parse forests for unification-based grammars', *Proceedings of the AAAI Symposium on Probabilistic Natural Language Processing*, Boston, Ma., pp. 33–38.
- Carroll, J. & E.J. Briscoe (1996) 'Apportioning development effort in a probabilistic LR parsing system through evaluation', *Proceedings of the 2nd Conference on Empirical Methods in Natural Language Processing*, University of Pennsylvania, Philadelphia, PA, pp. 92–100.
- Carroll, J. and E.J. Briscoe (2002) 'High precision extraction of grammatical relations', *Proceedings of the 19th Int. Conf. on Computational Linguistics (COLING 2002)*, Taipei, Taiwan, pp. 134–140.
- Carroll, J., E.J. Briscoe and A. Sanfilippo (1998) 'Parser evaluation: a survey and a new proposal', *Proceedings of the 1st Int. Conf. on Language Resources and Evaluation (LREC)*, Granada, pp. 447–454.
- Carroll, J., G. Minnen, and E.J. Briscoe (1998) 'Can subcategorisation probabilities help a statistical parser?', *Proceedings of the ACL SIGDAT 6th Workshop on Very Large Corpora*, Morgan Kaufmann, pp. 118–126.
- Carroll, J., G. Minnen and E.J. Briscoe (1999) 'Corpus annotation for parser evaluation', *Proceedings of the EACL-99 Workshop on Linguistically Interpreted Corpora (LINC-99)*, Morgan Kaufmann, pp. 35–41.
- Carter, D.M., E.J. Briscoe, and B.K. Boguraev (1987) 'A multi-purpose interface to an on-line dictionary', *Proceedings of the 3rd Eur. Assoc. for Comp. Ling.*, Copenhagen, pp. 63–69.
- Copestake, A.A. and E.J. Briscoe (1991) 'Lexical operations in a unification-based framework', *Proceedings of the ACL-91 Workshop on Lexical Semantics and Knowledge Representation*, Berkeley, CA, pp. 89–101.
- Cummins, R., Zhang, M. and E.J. Briscoe (2016) 'Constrained Multi-Task Learning for Automated Essay Scoring', *Proceedings of the ACL*, Berlin.
- Cummins, R., H. Yannakoudakis and E.J. Briscoe (2016) 'Unsupervised Modeling of Topical Relevance in L2 Learner Text', *Proceedings of the 11th Int. Workshop on Innovative Use of NLP for Building Educational Applications*, San Diego, Ca.
- Farag, Y., M. Rei and E.J. Briscoe (2017) 'An Error-Oriented Approach to Word Embedding Pre-Training', *Proceedings of the 12th Workshop on Innovative Use of NLP for Building Educational Applications*, Copenhagen.
- Felice, M. and E.J. Briscoe (2015) 'Towards a standard evaluation method for grammatical error detection and correction', *Proceedings of the NAACL-HLT*, Denver, CO.

- Gasperin, C. and E.J. Briscoe (2008) ‘Statistical Anaphora Resolution in Biomedical Texts’, *Proceedings of the 22nd Int. Conf. on Comp. Ling. (COLING 2008)*, Manchester, pp. 257–264.
- Karamanis, N., I. Lewin, R. Seal, R. Drysdale and E.J. Briscoe (2007) ‘Integrating natural language processing with FlyBase curation’, *Proceedings of the Pacific Symposium in Biocomputing*, Hawaii, pp. 245–253.
- Kochmar, E., O. Andersen, and E.J. Briscoe (2012) ‘HOO 2012 Error Recognition and Correction Shared Task: Cambridge University Submission Report’, *Proceedings of the 7th Workshop on Innovative Use for Building Educational Applications (at NAACL-HLT 2012)*, Montreal, Canada.
- Kochmar, E., and E.J. Briscoe (2013) ‘Capturing Anomalies in the Choice of Content Words in Compositional Distributional Semantic Space’, *Proceedings of the Recent Advances in Natural Language Processing (RANLP 2013)*, Hissar, Bulgaria.
- Kochmar, E., and E.J. Briscoe (2014) ‘Detecting Learner Errors in the Choice of Content Words Using Compositional Distributional Semantics’, *Proceedings of the 25th Int. Conf. on Comp. Ling. (COLING 2014)*, Dublin, Ireland.
- Kochmar, E., and E.J. Briscoe (2015) ‘Using Learner Data to Improve Error Correction in Adjective–Noun Combinations’, *Proceedings of the 10th Workshop on Innovative Use of NLP for Building Educational Applications*, Denver, CO.
- Korhonen, A. and E.J. Briscoe (2004) ‘Extended Lexical-Semantic Classification of English Verbs’, *Proceedings of the HLT/NAACL Workshop on Computational Lexical Semantics*, Boston, MA.
- Korhonen, A., Y. Krymolowski and E.J. Briscoe (2006) ‘A Large Subcategorization Lexicon for Natural Language Processing Applications’, *Proceedings of the 5th International Conference on Language Resources and Evaluation (LREC06)*, Genova, Italy.
- McQueen, J.M., E.J. Briscoe (1991) ‘A computational tool for examining lexical segmentation in continuous speech’, *Proceedings of the Eurospeech-91*, Genova, Italy, pp. 697-700.
- Medlock B., and E.J. Briscoe (2007) ‘Weakly Supervised Learning for Hedge Classification in Scientific Literature’, *Proceedings of the 45th Assoc. for Comp. Linguistics*, Prague, pp. 992-999.
- Ng, H.T., S. Wu, E.J. Briscoe, C. Hadiwinoto, R. Susanto and C. Bryant (2014) ‘The CoNLL-2014 Shared Task on Grammatical Error Correction’, *Proceedings of the 18th Conf. on Computational Natural Language Learning, CoNLL2014*, Baltimore.
- Osborne, M. and E.J. Briscoe (1997) ‘Learning stochastic categorial grammars’, *Proceedings of the ACL Comp. Nat. Lg. Learning (CoNLL97) Workshop*, Morgan Kaufmann, pp. 80–87.
- Preiss, J. and E.J. Briscoe (2003) ‘Intermediate parsing for anaphora resolution? Implementing the Lappin and Leass non-coreference filters’, *Proceedings of the ACL03 Workshop on Anaphora Resolution*, Morgan Kaufmann, pp. 1–6.
- Preiss, J., A. Korhonen and E.J. Briscoe (2002) ‘Subcategorization acquisition as an evaluation method for WSD’, *Proceedings of the 3rd*

- Int. Conf. on Lexical Resources and Evaluation*, Gran Canaria, Las Palmas, pp. 1551–1556.
- Preiss, J., E.J. Briscoe and A. Korhonen (2007) ‘45th Assoc. for Comp. Linguistics’, *Proceedings of the A System for Large-Scale Acquisition of Verbal, Nominal and Adjectival Subcategorization Frames from Corpora*, Prague, pp. 912–919.
- Preiss, J., Gasperin, C. and E.J. Briscoe (2004) ‘Can anaphoric definite descriptions be replaced by pronouns?’, *Proceedings of the 5th Int. Conf. on Lexical Resources and Evaluation*, Lisbon.
- Rei, M. and E.J. Briscoe (2010) ‘Combining manual rules and supervised learning for hedge cue and scope detection’, *Proceedings of the 14th Conf. on Computational Natural Language Learning: Shared Task, CoNLL2010*, Uppsala, Sweden, pp. 56–63.
- Rei, M. and E.J. Briscoe (2011) ‘Unsupervised Entailment Detection between Dependency Graph Fragments’, *Proceedings of the 10th Int. Workshop on Biomedical Natural Language Processing (BioNLP 2011)*, Portland, Oregon.
- Rei, M. and E.J. Briscoe (2013) ‘Parser lexicalisation through self-learning’, *Proceedings of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2013)*, Atlanta, Georgia.
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