

JOEL TETREAUULT

CONTACT INFORMATION

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<http://www.cs.rochester.edu/u/tetreaul/academic.html>
<https://www.linkedin.com/in/joel-tetreault-67234512/>

EDUCATION

University of Rochester September 1998 – December 2004
PhD, Computer Science Rochester, NY
Advisor: James Allen
Thesis: Empirical Evaluations of Pronoun Resolution

University of Rochester September 1998 - June 1999
MA, Computer Science Rochester, NY
Advisor: James Allen

Harvard University September 1994 - June 1998
BA, Computer Science Cambridge, MA
Advisor: Barbara Grosz
Thesis: A Centering Approach to Plural Pronouns

RESEARCH INTERESTS

Natural Language Processing, Machine Learning, Deep Learning, Discourse and Dialogue Processing, Noisy Data Processing, Dialogue Systems / Conversational Agents, Abusive Language Detection, Educational Applications, Social Media.

WORK EXPERIENCE

Senior Director of Research September 2019 - present
Dataminr New York, NY, USA
Dataminr is the leading AI platform for real-time events and risk detection. We enable our clients to know critical information first, respond with confidence, and manage crises more effectively. Technologies include NLP, Computer Vision, Human Computer Interaction, Deep Learning, among others. Responsibilities include:

- Developing and executing research strategy
- Lead and grow AI team (NLP, CV and DL scientists)
- Technical leader to the AI team and the company
- Branding Dataminr as an AI leader in the startup space with publications in top conferences, talks, sponsorships, and research internship program

Director of Research August 2016 - July 2019
Grammarly New York, NY, USA
Director of Research and Chief Scientist for Grammarly, a company focused on helping millions of people around the world write and communicate more effectively. The goal is to develop the world's best AI writing assistance using natural language processing, machine learning and deep learning techniques. I was tasked with bringing AI to product and building teams to do so. Primary contributions:

- Developed and executed research strategy
- Tripled the size of Grammarly's multi-location AI team worldwide and built a team of 10 scientists and linguists in NYC from scratch
- Restructured AI team to have major impact on product at a fast cadence (over a dozen new ML and DL empowered features in product)
- Technical leader to the AI teams in two offices (mentor Deep Learning and NLP research scientists and engineers to achieve R&D and product goals)

- Initiated and lead Grammarly's team of Analytical Linguists (annotation, crowdsourcing and quality control team)
- Lead our internal and external data and corpus acquisitions and development
- Branding Grammarly as an AI / NLP leader in the startup space with publications in top conferences, talks, sponsorships, and research internship program
- Manager of Grammarly NYC

Senior Research Scientist, Yahoo Labs

January 2014 – July 2016

Yahoo!

New York, NY, USA

Research scientist position in the Discourse, Dialogue and Summarization NLP group at Yahoo Labs NYC. Research focused on developing high-quality NLP and Machine Learning tools to develop the next generation of Yahoo products and user experiences. Specific research areas include noisy data processing, dialogue and discourse processing in online domains, parsing, news and comments ranking, and abuse detection. Primary contributions:

- Research and productization of Yahoo's machine learning abusive language and hate speech detection system for user comments
- Tech lead for Yahoo News and Finance Comments Ranking
- Won CEO Challenge to develop "Mail Lint" a tool to help users write more effective emails (better grammar, style and matching of goals)
- Foundational research into comments ranking for Yahoo's Vibe, style detection, grammatical error correction, parsing noisy data, multimodal sarcasm detection, among others

Senior Principal Manager, Core NL R&D

November 2012 – December 2013

Nuance Communications, Inc.

Sunnyvale, CA, USA

Lead NLP group of Nuance long-term research team on conversational user interfaces. Duties include developing short and long term strategic direction of NLP group, management and hiring of scientists and interns, collaborate with other research groups in Nuance. Research focused on developing high-quality, flexible and generalizable NLP tools for the development of an intelligent dialog system. Specific research areas for the group include syntactic and semantic parsing of noisy data, morphological analysis, natural language dialog and generation.

Managing Senior Research Scientist

February 2007 – October 2012

Educational Testing Service

Princeton, NJ, USA

Lead Automated Scoring NLP group. Duties include developing long-term strategic direction of NLP group, management of 5 scientists, mentoring of summer and year-long interns, recruitment of scientists, engineers, and research assistants, associate editor for company-wide internal review process, NLP project leader for two worldwide and national level assessments (managing 8 people per project), and representing ETS to external clients. Research projects include developing NLP grammatical error detection systems, plagiarism and paraphrase detection, identification of discourse coherence in student essays, and effective use of crowdsourcing for improving educational applications. Started as an Associate Research Scientist in 2007 and was promoted to current position in 2010.

Postdoctoral Research Fellow

November 2004 – February 2007

Mentor: Diane Litman

Learning Research and Development

Center, University of Pittsburgh, PA, USA

Developed Reinforcement Learning techniques to improve the ITSPOKE spoken dialogue tutoring system. Investigated which features should be used to best represent the student state in our tutoring domain. Assisted with corpora development and data collection.

Dissertation Research

1999 – 2004

Mentor: James Allen

University of Rochester,
Rochester, NY, USA

Researched factors (semantic information, discourse and dialogue structure) that contribute to proper interpretation of pronouns and implicit roles in a natural language system. Built a reference resolution system that can compare different pronoun resolution methods. Also developed a refined reference model that works well computationally and is psycholinguistically plausible.

Research Intern

Summer 2002

Mentor: David Traum

Institute for Creative Technologies,
Los Angeles, CA, USA

Worked on building a reference resolution module in the Mission Rehearsal Exercise (MRE) natural language system. Work also included investigating best practices and tools for transcribing and annotating dialogs as well as training annotators.

SELECTED PUBLICATIONS

Books

Claudia Leacock, Martin Chodorow, Michael Gamon and Joel Tetreault. *Automated Grammatical Error Detection for Language Learners (second edition)*. Synthesis Lectures on Human Language Technologies, 2014.

Claudia Leacock, Martin Chodorow, Michael Gamon and Joel Tetreault. *Automated Grammatical Error Detection for Language Learners*. Synthesis Lectures on Human Language Technologies, 2010, Vol 3., No. 1.

Journal Articles and Book Chapters

Courtney Napoles, Maria Nadejde and Joel Tetreault. (TACL 2019): Towards Robust Grammatical Error Correction: Datasets, Metrics and Analyses. In *Transactions of the Association for Computational Linguistics*. 2019.

Ellie Pavlick and Joel Tetreault. (TACL 2016): An Empirical Analysis of Formality in Online Communication. In *Proceedings of the Transactions of the Association for Computational Linguistics*. 2016.

Keisuke Sakaguchi, Courtney Napoles, Matt Post and Joel Tetreault. (TACL 2016): Re-assessing the Goals of Grammatical Error Correction: Fluency Instead of Grammaticality. In *Proceedings of the Transactions of the Association for Computational Linguistics*. 2016.

Michael Gamon, Martin Chodorow, Claudia Leacock and Joel Tetreault. Using Learner Corpora for Automatic Error Detection and Correction. In *Automatic Treatment and Analysis of Learner Corpus Data*. Editors: Ana Diaz-Negrillo, Nicolas Ballier and Paul Thompson. John Benjamins Publishing Company, Studies in Corpus Linguistics, 59.

Joel Tetreault, Martin Chodorow and Nitin Madnani. Bucking the trend: improved evaluation and annotation practices for ESL error detection systems, *Language Resources and Evaluation*. Springer Netherlands: July, 2013.

Jill Burstein, Joel Tetreault and Nitin Madnani. The E-rater Automated Essay Scoring System. In M. D. Shermis and J. Burstein (Eds.), *Handbook of Automated Essay Scoring: Current Applications and Future Directions*. New York: Routledge, 2013.

Jill Burstein, Joel Tetreault, Martin Chodorow, Daniel Blanchard and Slava Andreyev. Automated Evaluation of Discourse Coherence Quality in Essay Writing. In M. D. Shermis and J. Burstein (Eds.), *Handbook of Automated Essay Scoring: Current Applications and Future Directions*. New York: Routledge, 2013.

Jill Burstein, Joel Tetreault and Martin Chodorow. Holistic Annotation of Discourse Coherence Quality in Noisy Essay Writing. In the *Special issue of Dialogue and Discourse on: Beyond semantics: the challenges of annotating pragmatic and discourse phenomena*. (Eds.

S. Dipper, H. Zinsmeister, and B. Webber), 2013.

Martin Chodorow, Michael Gamon and Joel Tetreault. The Utility of Article and Preposition Error Correction Systems for English Language Learners: Feedback and Assessment. *Language Testing*, 2009, Vol. 27, No. 3, pp. 419-436.

Yoko Futagi, Paul Deane, Martin Chodorow and Joel Tetreault. A computational approach to detecting collocation errors in the writing of non-native speakers of English. *Computer Assisted Language Learning Journal*, 2008.

Joel Tetreault and Diane Litman. A Reinforcement Learning Approach to Evaluating State Representations in Spoken Dialogue Systems. *Special Issue of the Journal of Speech Communication*, Volume 50, Issue 8-0, August 2008.

Nathanael Chambers, Joel Tetreault, and James Allen. Approaches for Automatically Tagging Affect. *Computing Attitude and Affect in Text: Theory and Applications*. (Information Retrieval Series). Springer, December 2005.

Joel Tetreault. Decomposing Discourse. *Discourse Anaphora and Anaphora Resolution Colloquium*, 2004.

Joel Tetreault. A Corpus-Based Evaluation of Centering and Pronoun Resolution. *Computational Linguistics*, Volume 27-4, December 2001.

Conference Papers

Rui Zhang and Joel Tetreault. (ACL 2019): This Email Could Save Your Life: Introducing the Task of Email Subject Line Generation. In *Proceedings of ACL 2019*. Florence, Italy. July 28 - August 06, 2019.

Vipul Raheja. (NAACL 2019): Dialogue Act Classification with Context-Aware Self-Attention. In *Proceedings of NAACL 2019*. Minneapolis, MN, USA. June 02-07, 2019.

Sudha Rao and Joel Tetreault. (NAACL 2018): Dear Sir or Madam, May I Introduce the GYAFC Dataset: Corpus, Benchmarks and Metrics for Formality Style Transfer. In *Proceedings of NAACL 2018*. New Orleans, LA, USA. June 01-06, 2018.

Alice Lai and Joel Tetreault. (SIGDIAL 2018): Discourse Coherence in the Wild. In *Proceedings of the 19th Annual SIGDial Meeting on Discourse and Dialogue*. Melbourne, Australia. July 12-14, 2018.

Junchao Zheng, Courtney Napoles, Joel Tetreault and Kostiantyn Omelianchuk. (WNUT 2018): How do you correct run-on sentences it's not as easy as it seems. In *Proceedings of the 4th Workshop on Noisy User-generated Text*. Brussels, Belgium. November 01, 2018. **(Best Paper Award)**

Keisuke Sakaguchi, Courtney Napoles and Joel Tetreault. (BEA 2017): GEC into the future: Where are we going and how do we get there?. In *Proceedings of the 12th Workshop on Innovative Use of NLP for Building Educational Applications*. Copenhagen, Denmark. September 8, 2017.

Courtney Napoles, Keisuke Sakaguchi and Joel Tetreault. (EACL 2017): JFLEG: A Fluency Corpus and Benchmark for Grammatical Error Correction. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics*. Valencia, Spain. April 03-07, 2017.

Courtney Napoles, Aasish Pappu, Joel Tetreault. (ICWSM 2017): Automatically Identifying Good Conversations Online (Yes, They Do Exist!). In *Proceedings of the 11th International Conference on Web and Social Media*. Montreal, Canada. May 15-18, 2017.

Courtney Napoles, Joel Tetreault, Aasish Pappu, Enrica Rosato and Brian Provenzale. (LAW 2017): Finding Good Conversations Online: The Yahoo News Annotated Comments Corpus. In *Proceedings of the 11th Linguistic Annotation Workshop*. Valencia, Spain. April 03, 2017. [pdf]

Chikashi Nobata, Joel Tetreault, Achint Thomas, Yashar Mehdad, Yi Chang. (WWW 2016): Abusive Language Detection in Online User Comments. In *Proceedings of the 25th International World Wide Web Conference*. Montreal, Canada. April 2016.

Dragomir Radev, Amanda Stent, Joel Tetreault, Aasish Pappu, Aikaterini Iliakopoulou, Agustin Chanfreau, Paloma de Juan, Jordi Vallmitjana, Alejandro Jaimes, Rahul Jha and Robert Mankoff. (LREC 2016): Humor in Collective Discourse: Unsupervised Funniness Detection in the New Yorker Cartoon Caption Contest. In *Proceedings of the 10th International Conference on Language Resources and Evaluation*. April, 2016.

Yuncheng Li, Yale Song, Liangliang Cao, Joel Tetreault, Larry Goldberg and Jiebo Luo. (CVPR 2016): TGIF: A New Dataset and Benchmark on Animated GIF Description. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*.

Henriette Cramer, Paloma de Juan and Joel Tetreault. (MobileHCI 2016): Sender-Intended Functions of Emojis in US Messaging. In *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services*. Florence, Italy. September 06-09, 2016.

Rossano Schifanella, Paloma de Juan, Joel Tetreault and Liangliang Cao. (ACMMM 2016): Detecting Sarcasm in Multimodal Social Platforms. In *Proceedings of the ACM Multimedia 2016 Conference*. Amsterdam, The Netherlands. October 15-19, 2016.

Courtney Napoles, Keisuke Sakaguchi and Joel Tetreault. (EMNLP 2016): There's No Comparison: Reference-less Evaluation Metrics in Grammatical Error Correction. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*. Austin, TX, USA. November 01-05, 2016.

Yashar Mehdad and Joel Tetreault. (SigDial 2016): Do Characters Abuse More Than Words? In *Proceedings of the 17th Annual SIGdial Meeting on Discourse and Dialogue*. Los Angeles, CA, USA. September 13-15, 2016.

Jinho Choi, Joel Tetreault and Amanda Stent. (ACL 2015): It Depends: Dependency Parser Comparison Using A Web-based Evaluation Tool. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing*. Beijing, China, July, 2015.

Courtney Napoles, Keisuke Sakaguchi, Matt Post and Joel Tetreault. (ACL 2015): Ground Truth for Grammaticality Correction Metrics. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing*. Beijing, China, July, 2015.

Michael Heilman, Aoife Cahill, Nitin Madnani, Melissa Lopez, Matthew Mulholland, and Joel Tetreault. (ACL 2014): Predicting Grammaticality on an Ordinal Scale. In *Proceedings of the Association for Computational Linguistics*. Baltimore, MD, USA. June 23-25, 2014.

Mohammad Sadegh Rasooli and Joel Tetreault. (EACL 2014): Non-Monotonic Parsing of Fluent *Umm I mean* Disfluent Sentences. In *Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics*. Gothenburg, Sweden. August 26-30, 2014.

Mohammad Sadegh Rasooli and Joel Tetreault. (EMNLP 2013): Joint Parsing and Disfluency Detection in Linear Time. Seattle, WA, USA. October 18-21, 2013.

Hwee Tou Ng, Siew Mei Wu, Yuanbin Wu, Christian Hadiwinoto and Joel Tetreault. (CoNLL 2013): The CoNLL-2013 Shared Task on Grammatical Error Correction. In *Proceedings of the Seventeenth Conference on Computational Natural Language Learning*. Sofia, Bulgaria. August 08-09, 2013.

Aoife Cahill, Nitin Madnani, Joel Tetreault and Diane Napolitano. (NAACL 2013): Robust Systems for Preposition Error Correction Using Wikipedia Revisions. In *Proceedings of the 2013 Meeting of the North American Association for Computational Linguistics: Human Language Technologies*. Atlanta, GA, USA, June 10-12, 2013.

Joel Tetreault, Daniel Blanchard, Aoife Cahill and Martin Chodorow. (COLING 2012): Native Tongues, Lost and Found: Resources and Empirical Evaluations in Native Language Identification. In *Proceedings of the 24th International Conference on Computational Linguistics*. Mumbai, India, December 08-15, 2012.

Martin Chodorow, Markus Dickinson, Ross Israel and Joel Tetreault. (COLING 2012): Problems in Evaluating Grammatical Error Detection Systems. In *Proceedings of the 24th International Conference on Computational Linguistics*. Mumbai, India, December 08-15, 2012.

Nitin Madnani, Joel Tetreault and Martin Chodorow. (NAACL 2012): Re-examining Machine Translation Metrics for Paraphrase Identification. In *Proceedings of the 2012 Meeting of the North American Association for Computational Linguistics: Human Language Technologies*. Montreal, Canada, June 03-08, 2012.

Ross Israel, Joel Tetreault and Martin Chodorow. (NAACL 2012): Correcting Comma Errors in Learner Essays, and Restoring Commas in Newswire Text. In *Proceedings of the 2012 Meeting of the North American Association for Computational Linguistics: Human Language Technologies*. Montreal, Canada, June 03-08, 2012.

Nitin Madnani, Michael Heilman, Joel Tetreault and Martin Chodorow. (NAACL 2012): Identifying High-Level Organizational Elements in Argumentative Discourse. In *Proceedings of the 2012 Meeting of the North American Association for Computational Linguistics: Human Language Technologies*. Montreal, Canada, June 03-08, 2012.

Beata Beigman Klebanov, Jill Burstein, Nitin Madnani, Adam Faulkner and Joel Tetreault. (CICLing 2012): Building Subjectivity Lexicon(s) From Scratch For Essay Data. In *Proceedings of the 13th International Conference on Intelligent Text Processing and Computational Linguistics*. New Delhi, India, March 11-17, 2012.

Wei Xu, Joel Tetreault, Martin Chodorow, Ralph Grishman and Le Zhao. (EMNLP 2011): Exploiting Syntactic and Distributional Information for Spelling Correction with Web-Scale N-gram Models. In *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing*. Edinburgh, Scotland, July 27-29, 2011.

Nitin Madnani, Joel Tetreault, Martin Chodorow and Alla Rozovskaya. (ACL 2011): They Can Help: Using Crowdsourcing to Improve the Evaluation of Grammatical Error Detection Systems. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*. Portland, OR., June 19-24, 2011.

Joel Tetreault, Jennifer Foster and Martin Chodorow. (ACL 2010): Using Parse Features for Preposition Selection and Error Detection. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics*. Uppsala, Sweden, July 11-16, 2010.

Jill Burstein, Joel Tetreault and Slava Andreyev. (NAACL 2010): Using Entity-Based Features to Model Coherence in Student Essays. In *Proceedings of the 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Los Angeles, CA, USA, June 01-06, 2010.

Na-Rae Han, Joel Tetreault, Soo-Hwa Lee and Jin-Young Ha. (LREC 2010): Using an

Error-Annotated Learner Corpus to Develop an ESL/EFL Error Correction System. In *Proceedings of the 7th International Conference on Language Resources and Evaluation*. Malta, May 19-21, 2010.

Joel Tetreault and Martin Chodorow. (COLING 2008): The Ups and Downs of Preposition Error Detection. In *Proceedings of the 22nd International Conference on Computational Linguistics*. Manchester, UK, August 18-22, 2008.

Kate Forbes-Riley, Diane Litman, Amruta Purandare, Mihai Rotaru, and Joel Tetreault. (AIED 2007): Comparing Linguistic Features for Modeling Learning in Computer Dialogue Tutoring. *Proceedings 13th International Conference on Artificial Intelligence in Education*. Los Angeles, CA, July.

Joel Tetreault, Dan Bohus, and Diane Litman. (NAACL 2007): Estimating the Reliability of MDP Policies: A Confidence Interval Approach. In *Proceedings of the 2007 Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Rochester, NY, April 22-27, 2007.

Hua Ai, Joel Tetreault, and Diane Litman. (NAACL 2007): Comparing User Simulation Models for Dialog Strategy Learning. In *Proceedings of the 2007 Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Rochester, NY, April 22-27, 2007.

Kate Forbes-Riley, Mihai Rotaru, Diane Litman and Joel Tetreault. (NAACL 2007): Exploring Affect-Context Dependencies for Adaptive System Development. In *Proceedings of the 2007 Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Rochester, NY, April 22-27, 2007. (**Late-breaking News Award**).

Kate Forbes-Riley, Diane Litman, Scott Silliman and Joel Tetreault. (FLAIRS 2006): Comparing Synthesized versus Pre-Recorded Tutor Speech in an Intelligent Tutoring Spoken Dialogue System. *Proceedings 19th International Conference of the Florida Artificial Intelligence Research Society*. Melbourne Beach, Florida, May 11-13, 2006.

Joel Tetreault and Diane Litman. (EACL 2006): Using Reinforcement Learning to Build a Better Model of Dialogue State. *Proceedings of the 11th Conference of the European Association for Computational Linguistics*. Trento, Italy, April 03-07, 2006.

Joel Tetreault and Diane Litman. (NAACL 2006): Comparing the Utility of State Features in Spoken Dialogue Using Reinforcement Learning. In *Proceedings of the 2006 Human Language Technology/North American Association for Computational Linguistics*. New York City, NY., June 05-07, 2006.

Hua Ai, Diane Litman, Kate Forbes-Riley, Mihai Rotaru, Joel Tetreault, and Amruta Purandare. (INTERSPEECH 2006): Using System and User Performance Features to Improve Emotion Detection in Spoken Tutoring Dialogs. In *Proceedings of the 9th International Conference on Spoken Language Processing*. Pittsburgh, PA., September 17-26, 2006.

Nathanael Chambers, Joel Tetreault, and James Allen. Approaches for Automatically Tagging Affect. In *Proceedings of the 2004 AAAI Spring Symposium of Exploring Affect and Attitude in Text*, Stanford, CA., March 25-27, 2004.

Mary Swift, Myrosia Dzikovska, Joel Tetreault and James F. Allen. (LREC 2004): Semi-automatic syntactic and semantic corpus annotation with a deep parser. In *Proceedings of the 4th International Conference on Language Resources and Evaluation*. Lisbon, Portugal, May 26-28, 2004.

Joel Tetreault and James Allen. (CATALOG 2004): Semantics, Dialogue, and Pronoun Resolution. In *Proceedings of the 8th Workshop on the Semantics and Pragmatics of Dialogue*.

Barcelona, Spain, July 19-21, 2004.

Joel Tetreault and James Allen. An Empirical Evaluation of Pronoun Resolution and Clausal Structure. In *Proceedings of the 2003 International Symposium on Reference Resolution and its Applications to Question Answering and Summarization*. Venice, Italy, June 23-24, 2003.

Joel Tetreault. Implicit Role Reference. In *Proceedings of the International Symposium on Reference Resolution for Natural Language Processing*. Alicante, Spain, June 03-04, 2002.

Joel Tetreault. (DAARC 2002): Clausal Structure and Pronoun Resolution. In *Proceedings of the 4th Discourse Anaphora and Anaphora Resolution Colloquium*. Lisbon, Portugal, September 18-20, 2002.

Joel Tetreault. (ACL 1999): Analysis of Syntax Based Pronoun Resolution Methods. In *Proceedings of the 37th Annual Meeting of the Association for Computational Linguistics (student session)*. College Park, MD., June 20-26, 1999.

Donna Byron and Joel Tetreault. (EACL 1999): A Flexible Architecture for Reference Resolution. In *Proceedings of the 9th Conference of the European Chapter of the Association for Computational Linguistics*. Bergen, Norway, June 08-12, 1999.

Select Workshop Papers and Research Reports

Phu Mon Htut and Joel Tetreault. (BEA 2019): The Unreasonable Effectiveness of Transformer Language Models in Grammatical Error Correction. In *Proceedings of the BEA 2019*. Florence, Italy. August 02, 2019.

Maria Nadejde and Joel Tetreault. (W-NUT 2019): Personalizing Grammatical Error Correction: Adaptation to Proficiency Level and L1. In *Proceedings of the 5th Workshop on Noisy User-generated Text (W-NUT)*, Hong Kong. November 04, 2019.

Shervin Malmasi, Joel Tetreault and Mark Dras. (BEA 2015): Oracle and Human Baselines for Native Language Identification. In *Proceedings of the 10th Workshop on Innovative Use of NLP for Building Educational Applications*. Denver, CO, USA, June 04, 2015.

Mohammad Sadegh Rasooli and Joel Tetreault. Yara Parser: A Fast and Accurate Dependency Parser. In *arXiv preprint arXiv:1503.06733*. March 23, 2015.

Daniel Blanchard, Joel Tetreault, Derrick Higgins, Aoife Cahill and Martin Chodorow. (ETS RR 2013): TOEFL11: A Corpus of Non-Native English. In *ETS Research Report Series*. Volume 2:i-15.

Joel Tetreault, Daniel Blanchard and Aoife Cahill. (BEA 2013): A Report on the First Native Language Identification Shared Task. In *Proceedings of the 8th Workshop on Innovative Use of NLP for Building Educational Applications*. Atlanta, GA, USA, June 13, 2013.

Michael Heilman, Aoife Cahill and Joel Tetreault. (HOO 2012): Precision Isn't Everything: A Hybrid Approach to Grammatical Error Detection. In *Proceedings of the 7th Workshop on Innovative Use of Natural Language Processing for Building Educational Applications*. Montreal, Canada, June 07, 2012.

Nitin Madnani, Joel Tetreault and Martin Chodorow. (BEA 2012): Exploring Grammatical Error Correction with Not-So-Crummy Machine Translation. In *Proceedings of the 7th Workshop on Innovative Use of Natural Language Processing for Building Educational Applications*. Montreal, Canada, June 07, 2012.

Kristen Parton, Joel Tetreault, Nitin Madnani and Martin Chodorow. (WMT 2011): E-rating Machine Translation. In *Proceedings of the 6th Workshop on Statistical Machine Translation*. Edinburgh, Scotland, July 30-31, 2011.

Joel Tetreault, Elena Filatova and Martin Chodorow. (BEA 2010): Rethinking Grammatical Error Annotation and Evaluation with the Amazon Mechanical Turk. In *Proceedings of the 5th Workshop on Innovative Use of NLP for Building Educational Applications*. Los Angeles, CA, June 05, 2010.

Joel Tetreault and Martin Chodorow. (WAC 2009): Examining the Use of Region Web Counts for ESL Error Detection. In *Proceedings of the 5th Web as Corpus Workshop*. San Sebastian, Spain. September 07, 2009

John Lee, Joel Tetreault and Martin Chodorow. (LAW 2009): Human Evaluation of Article and Noun Number Usage: Influences of Context and Construction Variability. In *Proceedings of the 3rd Linguistic Annotation Workshop*. Suntec, Singapore, August 06-07, 2009.

Joel Tetreault and Martin Chodorow. (HJCL 2008): Native Judgments of Non-Native Usage: Experiments in Preposition Error Detection. In *Proceedings of the COLING Workshop on Human Judgments in Computational Linguistics*. Manchester, UK, August 23, 2008.

Martin Chodorow, Joel Tetreault and Na-Rae Han. Detection of Grammatical Errors Involving Prepositions. In *Proceedings of the Fourth ACL-SIGSEM Workshop on Prepositions*. Prague, Czech Republic, June 28, 2007.

PATENTS (FULL AND PENDING) Joel Tetreault, Aasish Pappu, Edo Liberty, Liang Cao, M. Liu, Ellie Pavlick, G. Tsur and Y. Maarek. (2019): Electronic message composition support method and apparatus. US Patent App. 10/193,833.

Courtney Napoles, Aasish Pappu, Joel Tetreault. (2018): Identifying Constructive Sub-Dialogues. US Patent App. 15/406,565

Aasish Pappu and Joel Tetreault. (2018): Commentary Generation. US Patent App. 15/359,994

Swapna Somasundaran, Martin Chodorow, Joel Tetreault. (2018): Systems and Methods for Automated Scoring of Textual Responses to Picture-Based Items. US Patent: 9,959,776

Yashar Mehdad and Joel Tetreault. (2018): Detecting abusive language using character n-gram feature. US Patent App. 15/224,434

Aasish Pappu, Sungjin Lee, Joel Tetreault and Amanda Stent. (2018): Fact machine for user generated content. US Patent App. 15/198,493

Joel Tetreault and Ellie Pavlick. (2017): Method and system for automatic formality transformation. US Patent App 14/757,423

Ross Israel, Joel Tetreault and Martin Chodorow. (2016): Computer-implemented systems and methods for detecting punctuation errors. US Patent 9,390,078

Nitin Madnani, Joel Tetreault and Martin Chodorow. (2016): Round-trip translation for automated grammatical error correction. US Patent 9,342,499

Nitin Madnani, Michael Heilman, Joel Tetreault and Martin Chodorow. (2015): Identifying High-Level Organizational Elements in Argumentative Discourse. US Patent 9,208,139

Jill Burstein, Beata Beigman-Klebanov, Nitin Madnani, and Joel Tetreault. Building Subjectivity Lexicons for Sentiment Analysis Systems for Use in Essay Scoring. Provisional US Patent filing.

Lei Chen, Joel Tetreault, Xiaoming Xi, Klaus Zechner, Miao Chen and Su-Youn Yoon.

Processor Implemented Systems and Methods for Measuring Syntactic Complexity on Spontaneous Non-Native Speech Data by Using Structural Event Detection. US Patent App. 20110213610

SHARED TASK
COMPETITIONS

WMT11 Shared Task on Machine Translation Evaluation: Placed first (MTeRater-Plus) and fifth (MTeRater).

HOO2012 Shared Task on Grammatical Error Detection: Placed third (ETS team).

TUTORIALS

COLING 2014 Tutorial on Automated Grammatical Error Correction for Language Learners

PROFESSIONAL
SERVICE

NAACL Treasurer (2013 – 2019)

ACL Coordinating Committee (2014, 2017, 2020)

Founder and First Chair of the ACL Special Interest Group on NLP and Education (SIGEdU) (2018)

Head Organizer: Workshop on Innovative Use of NLP for Building Educational Applications (2008 - 2018):

<http://www.cs.rochester.edu/u/tetreaul/naacl-bea11.html>

Organizing Committee: 1st Joint Workshop on Narrative Understanding, Storylines, and Events (2020):

<https://sites.google.com/view/nuse>

Organizing Committee: 3rd Workshop on Abusive Language Detection (2019):

<https://sites.google.com/site/abusiveLangaugeWorkshop2017/>

Organizing Committee: 1st Workshop on Abusive Language Detection (2017):

<https://sites.google.com/site/abusiveLangaugeWorkshop2017/>

Organizing Committee: CHI Workshop on Online Harrassment (2017):

<http://social.umd.edu/woh/>

Head Organizer: 1st Shared Task on Native Language Identification (2013):

<http://www.nlisharedtask2013.org/>

Organizing Committee: CoNLL Grammatical Error Correction Shared Task (2013):

<http://nlp.comp.nus.edu.sg/conll113st/>

Organizing Committee: First Workshop on Metaphor in NLP (2013):

<https://sites.google.com/site/1stworkshoponmetaphorinnlp2013/home>

Organizing Committee: First Joint Workshop on Statistical Parsing of Morphologically Rich Languages and Syntactic Analysis of Non-Canonical Languages (SPMRL-SANCL 2014):

<http://www.spmrl.org/spmrl-sancl2014.html>

Chair: Program Chair for ACL '20, Senior Area Chair for ACL '19, Area Chair for NAACL '19, Area and Session Chair for EMNLP '16, Area and Session Chair for ACL '15, Area Chair and Session Chair for NAACL '10, Special Program Chair for AAAI '12, Exhibits Chair and Session Chair for NAACL '12. Session Chair for NAACL '13. Nominated for NAACL Secretary '12. One Minute Madness Chair: NAACL: 2012, 2013, 2015; EMNLP: 2016.

Reviewer: ACL, NAACL, EACL, COLING, EMNLP, LREC, IJCAI, SIGdial, AAAI, RANLP, Computational Linguistics, TACL, numerous workshops

NLP/CL Conference Calendar: Maintained primary conference calendar for NLP and Computational Linguistics conferences and workshops (2004 - 2016):
<http://www.cs.rochester.edu/u/tetreaul/conferences.html>

DATASETS

Grammarly Corpus of Discourse Coherence

Grammarly Yahoo Answers Formality Corpus

French Yahoo! Answers: <http://webscope.sandbox.yahoo.com/catalog.php?datatype=1>

TGIF: A New Dataset and Benchmark on Animated GIF Description: <https://research.yahoo.com/publications/8721/tgif-new-dataset-and-benchmark-animated-gif-description>

COMPUTER SKILLS

Python, PyTorch, TensorFlow, Perl, LISP, C/C++, Unix shell scripts, Java, XML, HTML, \LaTeX

REFERENCES

Available upon request