

Scott A. Crossley
Department of Special Education
Peabody College
Vanderbilt University
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<https://www.linguisticanalysistools.org/>
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Education

May, 2006: The University of Memphis
Ph.D., English/ Linguistics

June, 2002: The University of Memphis
M.A., English (Concentrations in Linguistics and ESL)

June, 2001: California State University of Northridge
State of California Secondary Teaching Credential (Social Studies)

June, 1999: California State University of Northridge
B.A., History

Professional Credentials

August, 1999: The University of Memphis
TEFL Certificate

Areas of Specialization

Primary Areas: Natural Language Processing, Language Analytics, Language Acquisition, Psycholinguistics, Language Assessment, Learning Engineering

Academic Appointments

Vanderbilt University, Nashville, Tennessee
Professor (2022-Present): Department of Special Education
Teaching Faculty (2022-Present): Data Science Institute

Georgia State University (GSU), Atlanta, Georgia
Professor (2022-2023): Department of Computer Science

Georgia State University (GSU), Atlanta, Georgia
Professor (2018-2023): Department of Applied Linguistics

Georgia State University (GSU), Atlanta, Georgia
Associate Professor (2013-2018): Department of Applied Linguistics

Georgia State University, Atlanta, Georgia
Assistant Professor (2010-2013): Department of Applied Linguistics

Mississippi State University, Mississippi State, Mississippi
Assistant Professor (2006-2010): Department of English

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM), Sinaloa, Mexico
Professor (2003-2004)

Concurrent and Visiting Appointments

Ian Gordon Fellow
Victoria University, Wellington New Zealand (2023)

Fulbright Scholar:
Politehnica University of Bucharest (2022)

Temple University Japan
Distinguished Lecturer (2020)

Learning Sciences Institute, Arizona State University
Senior Research Associate (2011-2015)

Institute for Intelligent Systems, University of Memphis, Tennessee
Senior Research Associate (2005-2011)

Fulbright Scholar:
National and Kapodistrian University of Athens (2010)

Mississippi State University, Mississippi State, Mississippi
Visiting Lecturer (2005-2006): Department of English

External Research Support (Gifts and Grants)

Investigator(s)	Source/Name	Amount	Period
Crossley, S. A.	Chevron/ Chevron Partnership: iTELL	\$49,979	2025
Choi, J. & Crossley, S. A. (Co-PI)	The Tools Competition/ Conversational Research Advisor (ConRAD)	\$50,000	2024-2026
Rittle-Johnson, B., Crossley, S A. (co-PI), & Durkin, K	Schmidt Futures/Math Misconceptions Data Hub	\$500,000	2023-2024
Rittle-Johnson, B., Crossley, S A. (co-PI), & Durkin, K	Bill & Melinda Gates Foundation/Math	\$1,210,000	2023-2025

	Misconceptions Data Challenge with The Institute of Education Sciences		
Crossley, S A. (PI), Rittle-Johnson, B., & Durkin, K.	Walton Family Foundation/ IES Data Science Challenge Partnership	\$1,000,000	2023-2025
McCarthy, K., Shapiro, B., Crossley, S. A. (co-PI)	Bill & Melinda Gates Foundation/Tools Competition 2022	\$1,000,000	2022-2024
Holmes, L & Crossley, S. A. (co-PI)	The Learning Agency/PiiLO Corpus	\$23,000	2022-2023
Crossley, S. A. (PI)	Schmidt Futures/LEVI Hub	\$1,000,000	2022-2023
Tian, Y. & Crossley, S. A. (co-PI)	Schmidt Futures/WriteNet	\$200,000	2021-2023
Crossley A. (PI), McCarthy, K., & Shapiro, B	Walton Family Foundation/Open Data for Assessment Fund	\$1,000,000	2021-2023
Crossley A. (PI), McCarthy, K., & Shapiro, B	Schmidt Futures/ Data for Assessment Fund	\$1,000,000	2021-2023
Crossley A. (PI), & McCarthy, K.	Bill & Melinda Gates Foundation/Tools Competition 2021	\$1,000,000	2021-2023
Crossley A. (PI), & McCarthy, K.	The Citadel Foundation/ Tools Competition 2021	\$1,100,000	2021-2023
Garn, M., Goel, A., Crossley, S. A (Co-PI) et al.	National Science Foundation/ AI Institute for Adult Learning and Online Education (ALOE)	19,999,906	2021-2026
Choi, J. & Crossley, S. A. (Co-PI)	The Tools Competition/Automated Readability Tool	\$35,000	2021-2023
Crossley, S.A. (PI) & McCarthy, K.	National Science Foundation/ Improving Online Education Through Technology, Research, And Data	\$99,722	2020-2021
CommonLit & Crossley, S. A. (Co-PI)	Schmidt Futures/The Readability Prize	\$400,000	2020-2022
Crossley, S. A. (PI) & The Learning Agency Lab	Chan Zuckerberg Initiative/The Feedback Prize	\$1,250,000	2020-2022
Crossley, S. A. (PI) & The Learning Agency Lab	Schmidt Futures/The Feedback Prize	\$1,500,000	2020-2022
Crossley, S. A. (PI) & The Learning Agency Lab	Bill & Melinda Gates Foundation/The Feedback Prize	\$1,700,000	2020-2022
McNamara, D. S., Allen, L., & Crossley, S. A. (Co-PI)	Institute for Education Sciences/ The Development of the Writing Assessment Tool	\$1,500, 000	2018-2022

Ocuppaugh, J., Baker, R., Crossley, S. A. (Co-PI), Kostyuk, V., & Mingle, L.	(WAT): An On-line Platform for the Automated Assessment of Writing Education Technology National Science Foundation/ Linguistic Analysis and a Hybrid Human-Automatic Coach for Improving Math Identity Cambridge Michigan Language Assessment (CaMLA) Research Committee Research Program/ Latent Structure of the ECCE: Discovering Relationships among Reading, Listening, Writing, Speaking, and Lexico-Grammatical Ability	\$556,047	2016-2019
Kim, M., & Crossley, S. A. (Co-PI)	National Institute of Health/ The Next Frontier in Diabetes Communication: Promoting Health Literacy in the Era of Secure Messaging Qualtrics Behavioral Research Grant	\$3,000	2017
Karter, A. J., Schillinger, D. et al. (Co-Investigator)	Cambridge Michigan Language Assessment (CaMLA) Research Committee Research Program/ Linguistic Features in MELAB Writing Task Performance	\$3,100,000	2015–2019
Skalicky, S., & Crossley, S. A. (Co-PI)	Educational Testing Service/ The role of working memory, lexical properties, and cohesive devices in text integration and human ratings of speaking proficiency	\$3,000	2015
Jung, Y., Crossley, S. A. (Co-PI), & McNamara, D. S.		\$3,000	2014-2015
Crossley, S. A. (PI) & Kim, Y.		\$99,076	2013-2017

Internal Research Support

Investigator(s)	Source	Amount	Period
Goldring, L., Vanags, C., & Crossley, S. A. (Co-PI)	Innovation Catalyst Fund (Vanderbilt)/ Research Concierge: A Tool to Connect Faculty and Staff with the Resources Needed to Increase Research Impact	\$41,194	2024-2025

Crossley, S. A. (P.I.)	Innovation Catalyst Fund (Vanderbilt)/Proof of concept validation and data generation for iTELL	\$10,000	2023-2024
McCarthy, K., Feinberg, J., & Crossley, S. A. (Co-PI)	Research on the Challenges of Acquiring Language and Literacy Initiative Funding Project (GSU)/ Effects of Text Simplification on Civic Text Comprehension and Metacomprehension	\$34,915	2021-2022
Tighe, E., Greenberg, D., & Crossley, S. A. (Co-PI)	Research on the Challenges of Acquiring Language and Literacy Initiative Funding Project (GSU)/ The Relations of Comprehension Monitoring to Reading Comprehension in Struggling Adult Readers: Evidence from Eye Movement Data	\$46,724	2017-2018
Crossley, S. A. (PI), Berger, C., & Skalicky, S.	Adult Literacy Research Center (GSU)/ Text readability for adults: Linguistic approaches to developing age appropriate readability formulas	\$5,000	2016-2017
Crossley, S. A. (PI) & Frishkoff, G.	Research on the Challenges of Acquiring Language and Literacy Initiative Funding Project (GSU)/ VESSEL (Vocabulary Enhancement System for Strategic English Learning): Building an intelligent tutor to support interactive and robust word learning	\$46,000	2011–2012
Crossley, S. A. (PI)	Cleon F. Arrington Research Initiation Grant Program (GSU)	\$10,000	2011-2012

Dissertation

Crossley, S. A. (2006). A Computational Approach to Assessing Second Language Reading Texts. *Dissertation Abstracts International*, 64 (04), (UMI No. 3214022)

Natural Language Processing Tools (9): Available at linguisticanalysistools.org

Assessing Readability Tool for English (ARTE) (with Joon Suh Choi)

Constructed Response Analysis Tool (CRAT) (with Kristopher Kyle)

Grammar and Mechanics Error Tool (GAMET) (with Franklin Bradfield)

Tool for the Automatic Analysis of Cohesion (TAACO) (with Kristopher Kyle)

Tool for the Automatic Analysis of Lexical Sophistication (TAALES) (with Kristopher Kyle)

Tool for the Automatic Analysis of Morphological Information (TAAMI) (with Joon Suh Choi and Rurik Tyonwin)

Tool for the Automatic Analysis of Syntactic Sophistication and Complexity (TAASSC) (with Kristopher Kyle)

Sentiment Analysis and Cognition Engine (SEANCE) (with Kristopher Kyle)

Simple Natural Language Processing Tool (SiNLP) (with Kristopher Kyle)

Data Science Competitions Hosted

Title/Year	Partners	Host	Participants	Prize
CommonLit Readability Prize / 2021	CommonLit	Kaggle	4,393	60,000
Feedback Prize 1.0 - Evaluating Student Writing/ 2022	The Learning Agency	Kaggle	2,598	\$160,000
Feedback Prize 2.0 - Predicting Effective Arguments / 2022	The Learning Agency	Kaggle	1,910	\$55,000
Feedback Prize 3.0 - English Language Learning / 2022	The Learning Agency	Kaggle	3,273	\$55,000
Predict Student Performance from Game Play	University Wisconsin	Kaggle	2,677	\$55,000
CommonLit - Evaluate Student Summaries / 2023	CommonLit	Kaggle	2,450	\$60,000
Linking Writing Processes to Writing Quality / 2023-2024	The Learning Agency	Kaggle	2,256	\$55,000
LLM - Detect AI Generated Text / 2023-2024	Kaggle	Kaggle	5,264	\$110,000
PII Data Detection / 2024	The Learning Agency	Kaggle	2,510	\$60,000
Automatic Essay Scoring 2.0	The Learning Agency	Kaggle	3,341	\$50,000

Mining Misconceptions in Mathematics	Eedi	Kaggle	In progress	\$55,000
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Publications

Citation count: 18,000; h-index: 67; i10 index: 199

Edited Books (3)

Crossley, S. A., & Popescu, E. (2022). *Proceedings of the 17th International Conference on Intelligent Tutoring Systems (ITS 2022). Lecture Notes in Computer Science*. Bucharest, Romania: Springer.

Crossley, S. A., & McNamara, D. S. (2016). *Adaptive Educational Technologies for Literacy Instruction*. New York: Routledge.

Jarvis, S., & Crossley, S. A. (2012). *Approaching language transfer through text classification: Explorations in the detection-based approach*. Bristol, UK: Multilingual Matters.

Refereed Journal Publications (147)

Crossley, S. A. (in press). Developing linguistic constructs of text readability using natural language processing. *Scientific Studies in Reading*.

Holmes, L., Morris, W., Crossley, S. A., & Choi, J. S. (in press). Assessing the Reliability and Concurrent Validity of Transformer-based Language Proficiency Scores. *Language Testing*.

Morris, W., Holmes, L., Choi, J. S., Crossley, S. (in press) Automated Scoring of Constructed Response Items in Math Assessment Using Large Language Models. *Journal of Artificial Intelligence in Education*.

Morris, W., Holmes, L., Choi, J. S., Crossley, S. (in press) Distinguishing Effective Writing Styles in the PERSUADE Corpus. *Journal of Writing Research*.

Tian, Y., Crossley, S. A., Van Waes, L. (in press). The Keystroke Logging in Compositions for Knowledge Evaluation (KLiCKe) Corpus. *Journal of Writing Research*.

Crossley, S. A, Baffour, P., Tian, Y., Franklin, A., Benner, M., & Boser., U. (2024). A large-scale corpus for assessing written argumentation: PERSUADE 2.0. *Assessing Writing*, 61.

- Botarleanu, R. M., Watanabe, M., Dascalu, M., Crossley, S. A., & McNamara, D. S. (2024). Multilingual Age of Exposure 2.0. *International Journal of Artificial Intelligence in Education*. <https://doi.org/10.1007/s40593-023-00386-7>
- Crossley, S. A., & Choi, J. S. (2024). Measuring Phonological Complexity Using the Perfect Rhymes Dictionary (PeRDICT). *Reading Psychology*, 45(8), 775-802.
- Crossley, S. A., Tywoniw, R. & Choi, J. S. (2024). The Tool for Automatic Measurement of Morphological Information (TAMMI). *Behavior Research Methods*, 56, 5918–5929. <https://doi.org/10.3758/s13428-023-02324-w>
- Jung, Y., & Crossley, S. A. (2024). Stylistic alignment in natural conversation involving second language speakers. *Applied Linguistics Review*, 15(3), 871-900. <https://doi.org/10.1515/applirev-2020-0048>
- Morris, W., Crossley, S., Holmes, L., Ou, Chaohua, Dascalu, M., & McNamara, D. (2024). Formative Feedback on Student-Authored Summaries in Intelligent Textbooks using Large Language Models. *Journal of Artificial Intelligence in Education*. <https://doi.org/10.1007/s40593-024-00395-0>
- Tian, Y., Kim, M., Crossley, S. A., & Wan, Q. (2024). Cohesive devices as an indicator of L2 students' writing fluency. *Reading and Writing*, 37, 419–441. <https://doi.org/10.1007/s11145-021-10229-3>
- Crossley, S. A., Heintz, A., Choi, J., Batchelor, J., Karimi, M., & Malatinszky, A. (2023). A large-scaled corpus for assessing text readability. *Behavior Research Methods*, 55, 491–507.
- Crossley, S. A., & Holmes, L. (2023). Assessing receptive vocabulary using state-of-the-art natural language processing techniques. *Journal of Second Language Studies*, 6(11), 1-28.
- Crossley, S. A., Tian, Y., Baffour, P., Franklin, A., Kim, Y., Morris, W., Benner, B., Picou, A., & Boser, U. (2023). Measuring second language proficiency using the English Language Learner Insight, Proficiency and Skills Evaluation (ELLIPSE) Corpus. *International Journal of Learner Corpus Research*, 9 (2), 248-269.
- Crossley, S. A., Wan, Q., Allen, L., & McNamara, D. S. (2023). Source inclusion in synthesis writing: An NLP approach to understanding argumentation, sourcing, and essay quality. *Reading and Writing*, 36, 1053–1083.
- Holmes, L., Crossley, S. A., Sikka, H., & Morris, W. (2023). PIILO: An open-source system for personally identifiable information labeling and obfuscation. *Information and Learning Science*, 124 (9/10), 266-284.

- Kim, M., & Crossley, S. A. (2023). Lexical and phraseological differences between second language written and spoken opinion responses. *Frontiers in Psychology*, 14.
- Monteiro, K., Crossley, S. A., Botarleanu, R-M, & Dascălu, M. (2023). L2 and L1 semantic context indices as automated measures of lexical sophistication. *Language Testing*, 4(3).
- Tian, Y., Kim, M., & Crossley, S. A. (2023). Making sense of L2 written argumentation with keystroke logging. *Journal of Writing Research*.
- Botarleanu, R.-M., Dascalu, M., Watanabe, M., Crossley, S. A., & McNamara, D. S. (2022). Age of Exposure 2.0: Estimating word complexity using iterative models of word embeddings. *Behavior Research Methods*, 54, 3015–3042.
- Crossley, S. A., Baffour, P., Tian, Y., Picou, A., Benner, M., & Boser., U. (2022). The Persuasive Essays for Rating, Selecting, and Understanding Argumentative and Discourse Elements (PERSUADE) corpus 1.0. *Assessing Writing*, 54.
- Crossley, S. A., & Kim, M. (2022). Linguistic features of writing quality and development: A longitudinal approach. *Journal of Writing Analytics*, 6, 59-93.
- Crossley, S. A., Tian, Y., & Wan, Q. (2022). Argumentation features and essay quality: Exploring relationships and incidence counts. *Journal of Writing Research*, 14(1), 1–34.
- Kim, M., & Crossley, S. A., & Kim, B. (2022). Second language reading and writing in relation to first language, vocabulary knowledge, and learning backgrounds. *International Journal of Bilingual Education and Bilingualism*, 25(6), 1992-2005
- Kim, M., Nam, Y., & Crossley, S. A. (2022). Roles of working memory, syllogistic inferencing ability, and linguistic knowledge on second language listening comprehension for passages of different lengths. *Language Testing* 39 (4), 593–617.
- McCarthy, K. S., Crossley, S. A., Meyers, K., Boser, U., Allen, L. K., Chaudhri, V. K., Collins-Thompson, K., D’Mello, S., De Choudhury, M., Garg, K., Goel, A., Gosha, K., Heffernan, N., Hooper, M. A., Hyman, E., Jarratt, D. C., Khalil, D., Kizilcec, R. F., Litman, D., Malatinszky, A., Marks, K., McNamara, D. S., Menko, R., Palermo, C., Porcaro, D., Roscoe, R., Shapiro, S., Khanh-Phoung, T., Trumbore, A. M., White, C., Wong, W., Yang, D., & Zampieri, M. (2022). Toward more effective and equitable learning: Identifying barriers and solutions for the future of online education. *Technology, Mind, & Behavior*, 3 (1).
- Tighe, E. L., Kaldes, G., Talwar, A., Crossley, S. A., Greenberg, D., & Skalicky, S. (2022). Do struggling adult readers monitor their reading?: Understanding the role

- of online and offline comprehension monitoring processes during reading. *Journal of Learning Disabilities*, 56 (1), 25-42.
- Brown, W., Balyan, R., Karter, A. J., Crossley, S. A., Wagahta, S., Duran, D., Lyles, C., Liu, J., Moffet, H., Daniels, R., McNamara, D. S., & Schillinger, D (2021). Challenges and Solutions to Employing Natural Language Processing and Machine Learning to Measure Patients' Health Literacy and Physician Writing Complexity: The ECLIPPSE Study. *Journal of Biomedical Informatics*, 113.
- Cembali, A., Karter, A., Shillinger, D., Liu, J., McNamara, D. S., Brown, W., Crossley, S. A., Semere, W., Reed, M., Allen, J., & Lyles, C. (2021). Descriptive examination of secure messaging in a longitudinal cohort of diabetes patients in the ECLIPPSE study. *Journal of the American Medical Informatics Association*, 28 (6), 1252–1258.
- Crossley, S. A., Balyan, R., Liu, J., Schillinger, D., Karter, A., & McNamara, D. S. (2021). Developing and Testing Automatic Models of Patient Communicative Health Literacy Using Linguistic Features: Findings from the ECLIPPSE study. *Health Communication*, 36 (8), 1018-1028
- Kim, M., Tian, Y., & Crossley, S. A. (2021). Exploring the relationships among cognitive and linguistic resources, writing processes, and written products in second language writing. *Journal of Second Language Writing*, 53. (Honorable Mention for the 2021 Journal of Second Language Writing Best Paper Award.)
- Kyle, K., Crossley, S. A., & Jarvis, S. (2021). Assessing the validity of lexical diversity indices using direct judgements. *Language Assessment Quarterly*, 18 (2), 154-170.
- Kyle, K., Crossley, S. A., & Verspoor, M. (2021). Measuring longitudinal writing development using indices of syntactic complexity and sophistication. *Studies in Second Language Acquisition*, 43 (4), 781-812.
- Mostafa, T., Crossley, S., & Kim, Y. (2021). Predictors of English as second language learners' oral proficiency development in a classroom context. *International Journal of Applied Linguistics*, 31 (3), 526-548.
- Schillinger, D., Balyan, R., Crossley, S. A., McNamara, D. S., & Karter, A. (2021). Validity of a Computational Linguistics-Derived Automated Health Literacy Measure Across Race/Ethnicity: Findings from The ECLIPPSE Project. *Journal of Healthcare for Poor and Underserved*, 32 (2), 347-365.
- Schillinger, D., Balyan, R., Crossley, S. A., McNamara, D. S., Liu, J., & Karter, A. (2021). Employing Computational Linguistics Techniques to Identify Limited Patient Health Literacy: Findings from the ECLIPPSE Study. *Health Services Research Journal*, 56 (1), 132-144.

- Schillinger, D., Duran, N., Crossley, S. A., Balyan, R., McNamara, D. S., & Karter, A. J. (2021) Precision communication: Physicians' linguistic adaptation to patients' health literacy. *Sciences Advances*, 7 (51). DOI: 10.1126/sciadv.abj2836
- Crossley, S. A (2020). Linguistic features in writing quality and development: An overview. *Journal of Writing Research*, 11(3), 415-443.
- Crossley, S. A., Balyan, R., Liu, J., Karter, A., McNamara, D. S., & Schillinger, D. (2020). Predicting the readability of physicians' secure messages to improve health communication using novel linguistic features: Findings from the ECLIPPSE study. *Journal of Communication in Healthcare*, 13 (4), 344-356.
- Crossley, S. A., Duran, N., Kim, Y., Lester, T., & Clark, S. (2020). The action dynamics of native and non-Native speakers of English in processing active and passive sentences. *Linguistic Approaches to Bilingualism*, 10 (1), 58–85.
- Crossley, S. A., Karumbaiah, S., Ocumpaugh, J., Labrum, M., & Baker, R. (2020). Predicting math identity through language and click-stream patterns in a blended learning mathematics program for elementary students. *Journal of Learning Analytics*, 7 (1), 19-37.
- Kim, M., & Crossley, S. A. (2020) Exploring the construct validity of the ECCE: Latent structure of a CEFR-based high-intermediate level English language proficiency test. *Language Assessment Quarterly*, 17 (4), 434-457.
- Monteiro, K., Crossley, S. A., & Kyle, K. (2020). In search of new Benchmarks: Using L2 lexical frequency and contextual diversity indices to assess second language writing. *Applied Linguistics*, 41 (2), 280–300.
- Mostafa, T., & Crossley, S. A. (2020). Verb argument construction complexity indices and L2 writing quality: Effects of writing tasks and prompts. *Journal of Second Language Writing*, 49.
- Skalicky, S., Crossley, S. A., & Berger, C. (2020). Predictors of second language English lexical recognition: Further insights from a large database of second language lexical decision times. *Mental Lexicon*, 14 (3), 333–356.
- Skalicky, S., Duran, N., & Crossley, S. A. (2020). Please, please, just tell me: The linguistic features of humorous deception. *Dialogue & Discourse*, 11 (2), 128-149.
- Smith, G., Kyle, K., & Crossley, S. A. (2020). Word lists and the role of academic vocabulary use in high stakes speaking assessments. *International Journal of Corpus Linguistics*, 6 (2), 193–219.

- Balyan, R., Crossley S.A., Brown, W., Karter, A. J., McNamara, D. S., Liu, J. Y., et al. (2019) Using natural language processing and machine learning to classify health literacy from secure messages: The ECLIPPSE study. *PLoS ONE*, 14(2): e0212488.
- Berger, C. M., Crossley, S., & Kyle, K. (2019). Using native-speaker psycholinguistic norms to predict lexical proficiency and development in second-language production. *Applied Linguistics*, 40 (1), 22-42.
- Berger, C., Crossley, S. A., Skalicky, S. (2019). Using lexical features to investigate second language lexical decision performance. *Studies in Second Language Acquisition*, 41 (5), 911-935.
- Crossley, S. A., Bradfield, F., & Bustamante, A. (2019). Using human judgments to examine the validity of automated grammar, syntax, and mechanical errors in writing. *Journal of Writing Research*, 11(2), 251-270.
- Crossley, S. A., & Kim, Y. (2019). Text integration and speaking proficiency: Linguistic, individual differences, and strategy use considerations. *Language Assessment Quarterly*, 16 (2), 217-235.
- Crossley, S. A., Kyle, K., & Dascalu, M. (2019). The Tool for the Automatic Analysis of Cohesion 2.0: Integrating Semantic Similarity and Text Overlap. *Behavior Research Methods*, 51, 14–27.
- Crossley, S. A., & Skalicky, S. (2019). Examining lexical development in second language learners: An approximate replication of Salsbury, Crossley, and McNamara (2011). *Language Teaching*, 52 (3), 385-405.
- Crossley, S. A., & Skalicky, S. (2019). Making sense of polysemy relations in first and second language speakers of English. *International Journal of Bilingualism*, 23 (2), 400-416.
- Crossley, S. A., Skalicky, S., & Dascalu, M. (2019). Moving beyond classic readability formulas: New methods and new models. *Journal of Research in Reading*, 42 (3-4), 541-561.
- Crossley, S. A., Skalicky, S., Kyle, K., & Monteiro, K. (2019). Absolute frequency effects in second language lexical acquisition. *Studies in Second Language Acquisition*, 41(4), 721-744.
- Garner, J., Crossley, S. A., & Kyle, K. (2019). N-gram Measures and L2 Writing Proficiency. *System*. 80 (1), 176-187.

- Jung, Y., Crossley, S. A., & McNamara, D. S. (2019). Predicting Second Language Writing Proficiency in Learner Texts Using Computational Tools. *The Journal of Asia TEFL*, 16 (1), 37-52 .
- Liu, R., Stamper, J., Davenport, J., Crossley, S., McNamara, D., Nzinga, K., & Sherin, B. (2019). Learning linkages: Integrating data streams of multiple modalities and timescales. *Journal of Computer Assisted Learning*, 35 (1), 99-109.
- Semere, W., Crossley, S. A., Karter, A. J., Lyles, C., McNamara, D., Liu, J., & Schillinger, D. (2019). Secure Messaging with Physicians by Proxies for Patients with Diabetes: Findings from the ECLIPPSE Study. *Journal of General Internal Medicine*, 34, 2490–2496.
- Skalicky, S., & Crossley, S. A. (2019). Examining the Online Processing of Satirical Newspaper Headlines. *Discourse Processes*, 56 (1), 61-76.
- Tywoniw, R., & Crossley, S. A. (2019). The effect of cohesive features in integrated and independent L2 writing quality and text classification. *Language Education & Assessment*, 2 (3), 90-103.
- Crossley, S. A. (2018). Technological Disruption in Foreign Language Teaching: The Rise of Simultaneous Machine Translation. *Language Teaching*, 51 (4), 541-552.
- Crossley, S. A., & Kyle, K. (2018). Assessing writing with the tool for the automatic analysis of lexical sophistication (TAALES). *Assessing Writing*. 38 (1), 46-50.
- Garner, J., & Crossley, S. A. (2018). A Latent Curve Model Approach to Studying L2 N-gram Development. *Modern Language Journal*, 102 (3), 494-511.
- Garner, J.R., Crossley, S.A., & Kyle, K. (2018). Beginning and intermediate L2 writer's use of n-grams: An association measures study. *International Review of Applied Linguistics in Language Teaching*, 58 (1).
- Kim, M., & Crossley, S. A. (2018). Modeling Second Language Writing Quality: A Structural Equation Investigation of Lexical, Syntactic, and Cohesive Features in Source-Based and Independent Writing. *Assessing Writing*, 37 (1), 39-56.
- Kim, M., Crossley, S. A., & Kyle, K. (2018). Lexical sophistication as a multidimensional phenomenon: Relations to second language lexical proficiency, development, and writing quality. *The Modern Language Journal*, 102 (1), 120-141.
- Kim, M., Crossley, S. A., & Skalicky, S. (2018). Effects of Lexical Features, Textual Properties, and Individual Differences on Word Processing Times During Second Language Reading Comprehension. *Reading and Writing*, 31 (5), 1155-1180.

- Kyle, K., & Crossley, S. A. (2018). Measuring Syntactic Complexity in L2 Writing Using Fine-Grained Clausal and Phrasal Indices. *Modern Language Journal*, 102 (2), 333-349.
- Kyle, K., Crossley, S. A., & Berger, C. (2018). The Tool for the Automatic Analysis of Lexical Sophistication Version 2.0. *Behavior Research Methods*, 50 (3), 1030-1046.
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- Crossley, S. A., & McNamara, D. S. (2010). Interlanguage talk: What can breadth of knowledge features tell us about input and output differences? In H.W. Guesgen and C. Murray (Eds.), *Proceedings of the 23rd International Florida Artificial Intelligence Research Society* (229-235). Menlo Park, CA: The AAAI Press.
- Weston, J. L., Crossley, S. A., & McNamara, D. S. (2010). Towards a computational assessment of freewriting quality. In H.W. Guesgen and C. Murray (Eds.), *Proceedings of the 23rd International Florida Artificial Intelligence Research Society (FLAIRS) Conference* (pp. 283-288). Menlo Park, CA: The AAAI Press.
- Crossley, S. A., Boggess, G., & Salsbury, T. (2009). Exploring lexical network development in second language learners. In C.H. Lane & H.W. Guesgen (Eds.), *Proceedings of the 22nd International Florida Artificial Intelligence Research Society* (pp. 225-230). Menlo Park, CA: The AAAI Press.
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- Crossley, S. A., Salsbury, T. McCarthy, P. M. & McNamara, D. S. (2008). Using Latent Semantic Analysis to explore second language lexical development. In D. Wilson & G. Sutcliffe (Eds.), *Proceedings of the 21st International Florida Artificial Intelligence Research Society* (pp. 136-141). Menlo Park, California: AAAI Press.
- Crossley, S. A., Salsbury, T., McCarthy, P. M., & McNamara, D. S. (2008) LSA as a measure of coherence in second language natural discourse. In V. Sloutsky, B. Love, and K. McRae (Eds.), *Proceedings of the 30th annual conference of the Cognitive Science Society* (pp. 1906-1911). Washington, D.C.: Cognitive Science Society.
- McCarthy, P. M., Rus, V., Crossley, S. A., Graesser, A. C., & McNamara, D. S. (2008). Assessing forward-, reverse-, and average entailment indices on natural language

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- Crossley, S. A., Dufty, D. F., McCarthy, P. M., & McNamara, D. S. (2007). Toward a new readability: A mixed model approach. In D.S. McNamara and G. Trafton (Eds.), *Proceedings of the 29th annual conference of the Cognitive Science Society* (pp. 197-202). Austin, TX: Cognitive Science Society.
- Crossley, S. A., McCarthy, P. M. & McNamara, D. S. (2007). Discriminating between second language learning text-types. In D. Wilson & G. Sutcliffe (Eds.), *Proceedings of the 20th International Florida Artificial Intelligence Research Society* (pp. 205-210). Menlo Park, California: AAAI Press.
- McCarthy, P. M., Rus, V., Crossley, S. A., Bigham, S. C., Graesser, A. C. & McNamara, D. S. (2007). Assessing entailment with a corpus of natural language from an intelligent tutoring system. In D. Wilson & G. Sutcliffe (Eds.), *Proceedings of the 20th International Florida Artificial Intelligence Research Society* (pp. 247-252). Menlo Park, California: AAAI Press.
- Louwerse, M. M. & Crossley, S. A. (2006). Dialog act classification using N-Gram algorithms. In G. Sutcliffe & R. Goebel (Eds.), *Proceedings of the International Florida Artificial Intelligence Research Society* (pp. 758-763). Menlo Park, California: AAAI Press.

Refereed Encyclopedia Articles (2)

- Skalicky, S., & Crossley, S. A. (in press). Corpus Software for Applied Linguistics. In C. Chapelle & T. Berber Sardinha (Eds.). *The Encyclopedia of Applied Linguistics*. Hoboken, NJ: Wiley Publishers.
- Crossley, S. A. (2017). Authentic and Simplified Texts. In H. Nassaji (Ed.), *TESOL Encyclopedia of English Language Teaching*. Hoboken, NJ: Wiley Publishers.

Refereed Abstracts (2)

- Shum, S. B., Knight, S., McNamara, D. S., Allen, L., Bektik, D., & Crossley, S. A. (2016). Critical Perspectives on Writing Analytics. In Gasevic, D., & Lynch, G. (eds.). *Proceedings of the 6th International Learning Analytics and Knowledge (LAK) Conference*. (pp. 481-483). New York, NY: ACM. doi: 10.1145/2883851.2883931
- Crossley, S. A., McCarthy, P. M., Lewis, G. A., Dufty, D. F., Louwerse, M. M. & McNamara, D. S. (2006). Detecting manipulated second language learning texts. In R. Sun & N. Miyake (Eds.), *Proceedings of the 28th Annual Conference of the*

Cognitive Science Society (pp. 2463). Mahwah, New Jersey: Lawrence Erlbaum Associates, Inc.

Refereed Working Papers (2)

Kim, M., & Crossley, S. A. (2018). Latent Structure of the ECCE: Discovering Relationships among Reading, Listening, Writing, Speaking, and Lexico-Grammatical Ability. (SPAAN Research Grant Working Paper 2018-01).

Jung, Y., Crossley, S. A., & McNamara, D. S. (2015). Linguistic features in MELAB writing performances (SPAAN Research Grant Working Paper No. 2015-05).

Non-Refereed Publications (12)

Crossley, S. A., & Boser, U. (2024). 5 approaches (and a few other ideas) to spur educational datasets. *The Cutting Ed*. <https://the-learning-agency.com/the-cutting-ed/article/5-approaches-and-a-few-other-ideas-to-spur-educational-datasets/>

Kukulska-Hulme, A., Wise, A.F., Coughlan, T., Biswas, G., Bossu, C., Burriss, S.K., Charitonos, K., Crossley, S.A., Enyedy, N., Ferguson, R., FitzGerald, E., Gaved, M., Herodotou, C., Hundley, M., McTamane, C., Molvig, O., Pendergrass, E., Ramey, L., Sargent, J., Scanlon, E., Smith, B.E., & Whitelock, D. (2024). *Innovating Pedagogy 2024: Open University Innovation Report 12*. Milton Keynes: The Open University.

Baffour, P., Saxberg, T. Abboud, R., Boser, U., & Crossley, S. (2024). Assessing ChatGPT writing evaluation skills using benchmark data. *Learning Agency Insights*. <https://the-learning-agency.com/insights/assessing-chatgpt-writing-evaluation-skills-using-benchmark-data/>

King, J., Burleigh, L., Baffour, P., Crossley, S., Benner, M., & Boser, U. (2024). Best practices for data science competition in education. *Learning Agency Insights*. <https://the-learning-agency.com/insights/best-practices-for-data-science-competitions-in-education/>

Choi, J., Baffour, P., Crossley, S., & Boser, B. (2023). Creating a custom chatbot to give evidence-based education advice. *Learning Agency Insights*. <https://www.the-learning-agency.com/insights/creating-a-custom-chatbot-to-give-evidence-based-education-advice/>

Crossley, S. A. (2023). How AI technologies can enhance learning and be "intelligent partners" for teachers and students. *Walton Family Foundation*. <https://www.waltonfamilyfoundation.org/stories/k-12-education/how-ai-technologies-can-enhance-learning-and-be-intelligent-partners-for-teachers-and-students>

Crossley, S. A. (2020). En la era del COVID-19 la retroalimentación óptima puede ayudar a los estudiantes que están aprendiendo inglés. *La Opinión*. <https://laopinion.com/2020/09/16/en-la-era-del-covid-19-la-retroalimentacion-optima-puede-ayudar-a-los-estudiantes-que-estan-aprendiendo-ingles/>

Crossley, S. A. (2020). How to protect student privacy in educational NLP. *Learning Curve*. <https://www.the-learning-agency-lab.com/the-learning-curve/how-to-protect-student-privacy-in-education-nlp>

Crossley, S. A., Marsden, E., Ellis, N., Kormos, J., Morgan-Short, K., & Thierry, G. (2020). Introduction of Methods Showcase Articles in Language Learning. *Language Learning*, 70 (1), 1-5.

Crossley, S. A. (2020). Natural Language Processing and the Future of Education. *Learning Curve*. <https://www.the-learning-agency-lab.com/the-learning-curve/how-npl-will-change-education>

Marsden, E., Crossley, S., Ellis, N., Kormos, J., Morgan-Short, K., & Thierry, G. (2019). Inclusion of research materials when submitting an article to *Language Learning*. *Language Learning*, 69(4), 795-801.

Crossley, S. A. (2005) TOEFL: The next generation. *TNTESOL Newsletter*, 26, 1-3.

Invited Keynote Addresses

Crossley, S. A. (September, 2024). *Applications of corpus-based data competitions in research and industry*. Presentation at the 16th International American Association for Corpus Linguistics Conference (AACL 2024). University of Oregon, Eugene, OR.

Crossley, S. A. (June, 2024). *Crowd-sourced solutions for using keystroke logs to assess writing quality*. Presentation at the EARLI Sig Writing Conference (Sig Writing 20). Paris Nanterre University, Paris, France.

Crossley, S. A. (March, 2023). *Assessing text readability: Past, present, and future*. Presentation at the 36th Annual Human Sentence Processing Conference. University of Pittsburgh, Pittsburgh, PA.

Crossley, S. A. (November, 2021). *Computational Approaches to Assessing English Language Proficiency*. Presentation at the International Congress of Fundamental Literacies. Santo Tomas University, Santiago, Chile.

Crossley, S. A. (March, 2021). *Empowering better automated writing evaluation systems with the PERSUADE corpus*. Presentation at the American Association for Artificial Intelligence (AAAI) 2021 Spring Symposium Series: Artificial Intelligence for K-12 Education. Stanford University, Stanford, CA.

Crossley, S. A. (September, 2019). *Integrating Applied Linguistics into emerging digital contexts*. Presentation at the 2019 Applied Linguistic Association of Korea (ALAK) conference & 6th East Asia AILA Symposium, Hankuk University of Foreign Studies, Seoul, Korea.

Crossley, S. A. (April, 2019). *How can crowd-sourcing be used to develop non-native speaking norms for lexical features?* Presentation at the 6th Annual Grad Student Linguistics Conference (GSOLT), Temple University, Philadelphia, PA.

Crossley, S. A. (August, 2018). *Examining creativity using automatic linguistic analysis*. Presentation at the EARLI Sig Writing Conference (Sig Writing 16). University of Antwerp, Antwerp, Belgium.

Crossley, S. A. (January, 2017). *Summative and formative feedback using natural language processing tools*. Presentation at the 4th International Conference on Writing Analytics: Writing Analytics, Data Mining, and Student Success. University of South Florida, St. Petersburg, FL.

Crossley, S. A. (July, 2016). *Predicting text difficulty for adult readers*. Presentation at the 26th Annual Meeting of the Society for Text & Discourse (ST&D), Kassel, Germany.

Crossley, S. A. (June, 2011). *Toward a cognitive approach in corpus linguistics: Corpora, human evaluations, and computational assessments of linguistic knowledge*. Presentation at the 18th Annual Applied Linguistics Research Exchange (InPLA), Sao Paulo, Brazil.

Invited Presentations

Crossley, S. A. (September, 2024). *Using intelligent texts in the classroom*. Educational Technology in Trade & Industry Symposium. Central Georgia Technical College (Warner Robins Campus).

Crossley, S. A. (March, 2024). *Understanding text readability from tokens to transformers*. Graduate Student Association Research Colloquium. Georgia State University.

Crossley, S. A. (January, 2024). *From tokens to transformers: Applications in text complexity*. Learning Informatics Lab: Winter Colloquium. University of Minnesota.

Crossley, S. A. (July, 2023). *Better matching texts to readers using computationally informed readability formulas*. Ian Gordon Fellow invited talk at Victoria University of Wellington.

- Crossley, S. A. (July, 2023). *What is writing proficiency and how can we teach it better?* Ian Gordon Fellow invited talk at Victoria University of Wellington.
- Crossley, S. A. (July, 2023). *Personalization in intelligent textbooks using large language models*. Pens & Pixels: Generative AI in Education, University of California Irvine.
- Crossley, S. A. (May, 2019). *Crowd-sourcing linguistic data to better understand lexical processing and production*. Workshop on Natural Language Processing at Jena University, Jena, Germany.
- Crossley, S. A. (May, 2019). *Crowd-sourcing non-native speaking norms*. Workshop on Natural Language Processing at The Katholieke Universiteit Leuven, Leuven, Belgium.
- Crossley, S. A. (April, 2019). *Crowd-sourcing non-native speaking lexical decision task norms: Methods and applications*. Workshop on Natural Language Processing at the Université catholique de Louvain, Louvain, Belgium.
- Crossley, S. A. (April, 2018). *Crowdsourcing text complexity models*. Workshop on text readability. University of Utrecht, Utrecht, Holland.
- Crossley, S. A. (April, 2017). Predicting text comprehension: New approaches to readability formulas. *Symposium for the Faculty of Education and Philosophy at the Pontificia Universidad Catolica de Valparaiso*, Valparaiso, Chile.
- Crossley, S. A. (May, 2014). Natural language processing tools and automatic essays scoring systems. *Symposium on Linguistic Perspectives on Discipline-Specific Language*, Iowa State University, Ames, IA
- Crossley, S. A. (January, 2014). *Automatic readability prediction*. Workshop on Writing and Readability Tools, University of Utrecht, Utrecht, Holland.
- Crossley, S. A., & McNamara, D. S. (March, 2012). *Syntactic development in L2 writers: Means, measures, and effects on human ratings of essay quality*. Colloquium at the 2012 Georgetown University Round Table (GURT), Washington, D.C.
- McNamara, D. S., & Crossley, S. A. (March, 2012). *How important is cohesion in predicting writing quality and writing development? Connecting theory, human judgments, and computer simulations*. Colloquium at the 2012 Georgetown University Round Table (GURT), Washington, D.C.
- Crossley, S. A. (June, 2011). *Predicting text reading level using traditional and cognitively inspired readability formulas*. Presentation at the 18th Annual Applied Linguistics Research Exchange (InPLA), Sao Paulo, Brazil.

Crossley, S. A., & McCarthy, P. M. (March, 2005). *Corpus linguistics*. Hot Topics presentation at the 39th Annual Teachers of English to Speakers of Other Languages (TESOL) conference, San Antonio, TX.

Invited Workshops, Panels, and Colloquiums

Crossley, S. A. (March, 2024). *Leveraging artificial intelligence in second language acquisition research*. Organizer of Invited Colloquium at the American Association for Applied Linguistics (AAAL). Houston, TX.

Dede, C., Goel, A., Crossley, S. A., Nandan, V. (October, 2023). *How AI is empowering adult learning and online education*. Presenter at Empowering Learners for the Age of Artificial Intelligence Global (ELAIG-2023). Online.

Briscoe, E., Crossley, S. A., Parlangeli, O., Porayska-Pomsta, K., Phillips-Brown, M., & Tuomi, I. (July, 2022). *AI and education: ethical challenges and opportunities*. Panel at the 7th conference on Smart Learning Ecosystems and Regional Development (SLERD). Bucharest, Romania.

Crossley, S. A. (February, 2022). *Navigating graduate school and academia*. Presenter at Workshop at the British Association for Applied Linguists (BAAL) Researcher Development Workshop Series: Professional Development in Applied Linguistics for Graduate Students and Early Career Researchers. Virtual Workshop.

Crossley, S. A. (December, 2020). *ImageNets for education*. Panel Discussion at the Advances and Opportunities: Machine Learning for Education workshop, Thirty-fourth Conference on Neural Information Processing Systems (NeurIPS 2020). Virtual Conference.

Crossley, S. A. (August, 2020). *Assessing lexical sophistication in the writing of English learners: A practical overview*. Presenter at Workshop for the Department of English Language and Literature, Yonsei University, Seoul, South Korea.

Crossley, S. A., & Kyle, Kris (July, 2020). *Automatically Assessing Lexical Features in Learner Corpora*. Presenter at Workshop for the Applied Linguistics and Language Studies (LAEL) Research Bazaar at the Pontifical Catholic University of Sao Paulo (PUCSP), Brazil.

Crossley, S. A. (May, 2019). *Automated assessment of lexical proficiency in learner corpora*. Presenter at Workshop at the The Katholieke Universiteit Leuven, Leuven, Belgium.

Crossley, S. A. (April, 2019). *Natural language processing in learner corpora: A lexical approach*. Presenter at Workshop at the Université Catholique de Louvain, Louvain, Belgium.

- Crossley, S. A. (March, 2019). *Let's automate: Natural language processing tools and their applications*. Organizer of Invited colloquium organized at the American Association for Applied Linguistics (AAAL) Conference, Atlanta, GA.
- Crossley, S. A. & Kyle, K. (September, 2018). *An Introduction to Natural Language Processing Tools: The Curious Case of the Lexicon*. Presenter at Workshop at the 14th American Association for Corpus Linguistics (AACL) Conference. Atlanta, GA.
- Shum, S. B., Knight, S., McNamara, D. S., Allen, L., Bektik, D., & Crossley, S. A. (April, 2016). *Critical Perspectives on Writing Analytics*. Presenter at 6th International Learning Analytics and Knowledge (LAK) Conference. Edinburgh, Scotland.
- Crossley, S. A., & Kyle, K. (October, 2015). *Natural language processing tools and second language research*. Presenter at Workshop at the 34th annual Second Language Research Forum (SLRF 2015), Atlanta, GA.
- Crossley, S. A., Allen, L. & McNamara, D. S. (June, 2015). *The Use of Natural Language Processing Tools in Educational Data Mining*. Presenter at Workshop at the 8th International Conference on Educational Data Mining, Madrid, Spain.
- Crossley, S. A. (June, 2014). *Natural Language Processing and Its Use in Corpus Linguistic Research*. Presenter at Workshop at the Symposium on Corpus Linguistics: Patterning and Variation. Pontificia Universidade Catolica de Sao Paulo, Sao Paulo, Brazil.
- Crossley, S. A. (June, 2014). *Statistical Methods in Corpus-Based Research*. Presenter at Workshop at the Symposium on Corpus Linguistics: Patterning and Variation. Pontificia Universidade Catolica de Sao Paulo, Sao Paulo, Brazil.
- Crossley, S. A. & McNamara, D. S. (May, 2014). *Using automated programmes & approaches for test development and/or assessing productive skills*. Presenter at Workshop at the 11th Annual Meeting of the European Association for Language Testing and Assessment, University of Warwick, United Kingdom.
- McNamara, D. S., Crossley, S. A., Varner, L. (July, 2013). *Designing, building, and using automated writing evaluation systems: A tutorial*. Presenter at Workshop at the 23rd Annual Meeting of the Society for Text and Discourse, Valencia, Spain.
- Crossley, S. A., & McNamara, D. S. (March, 2012). *How important is syntax in L2 writing? Using computational indices of syntactic complexity to assess human judgments of L2 writing quality and L2 syntactic development*. Presenter at Workshop at the 2012 Georgetown University Round Table (GURT), Washington, D.C.

McNamara, D. S., & Crossley, S. A. (March, 2012). *Understanding judgments of second language text organization and essay quality: Human scores, automated indices of cohesion, and machine learning algorithms*. Presenter at Workshop at the 2012 Georgetown University Round Table (GURT), Washington, D.C.

Refereed Conference Presentations (Main Presenter)

Crossley, S., Baffour, P., Dascalu, M., & Ruseti, S. (June, 2024). *A World CLASSE Student Summary Corpus*. Poster presentation at the 19th Workshop on Innovative Use of NLP for Building Educational Applications (BEA). Mexico City, Mexico.

Crossley, S. A., Choi, J. S., Morris, W., Holmes, L., Joyner, D. & Gupta, V. (July, 2024). *Using Intelligent Texts in A Computer Science Classroom: Findings from an iTELL Deployment*. Paper presentation at the 17th International Conference on Educational Data Mining (EDM). Atlanta, GA.

Crossley, S. A., Tian, Y., Holmes, L., Morris, W., & Choi, J. S. (July, 2024). *Plagiarism Detection Using Keystroke Logs*. Presentation at the 17th International Conference on Educational Data Mining (EDM). Atlanta, GA.

Crossley, S. A., Choi, J. S., Scherber, Y., & Lucka, M. (July, 2023). *Using large language models to develop readability formulas for educational settings*. Poster presentation at the 24th International Conference on Artificial Intelligence in Education (AIED). Tokyo, Japan.

Crossley, S. A., Cushing, S., Kyle, K., & Jarvis, S. (July, 2023). *Crowd-Sourcing Human Ratings of Linguistic Production*. Poster presentation at the 45th Annual Conference of the Cognitive Science Society. Sydney, Australia: Cognitive Science Society.

Crossley, S. A., Tywoniw, R., & Choi, J. (June, 2023). *The Tool for the Automatic Analysis of Morphological Information (TAMMI): A use case*. Presentation at the 33rd Annual Meeting of the Society for Text and Discourse. Oslo, Norway.

Crossley, S. A., Scherber, Y., Choi, J. S., Lucka, M., & Kim, Y. (July, 2022). *Using sentence embeddings to predict text readability: A comparison*. Presentation at the 32nd Annual Meeting of the Society for Text and Discourse, Virtual Conference.

Choi, J., & Crossley, S.A. (July 2022). *Automated Readability Web App for English*. Paper presented at the Twenty-second IEEE International Conference on Advanced Learning Technologies (ICALT), Bucharest, Romania.

Crossley, S. A., Skalicky, S., Berger, C., & Heidari, A. (July, 2022). *Assessing Readability Formulas in the Wild*. Presentation at the 7th conference on Smart Learning Ecosystems and Regional Development (SLERD). Bucharest, Romania.

- Holmes, L., Crossley, S. A., Haynes, R., Kuehl, D., Trumbore, T., & Gutu, G. (July, 2022). *Deidentification of student writing in technologically mediated educational settings*. Presentation at the 7th conference on Smart Learning Ecosystems and Regional Development (SLERD). Bucharest, Romania.
- Wan, Q., Crossley, S., & Tian, Y. (July, 2022). *Automated Classification of Argumentative Components in Students' Essays*. Paper presented at the 18th International Conference on Intelligent Tutoring Systems, Bucharest, Romania.
- Crossley, S.A., Tian, Y., Baffour, B., Benner, M., Boser, U., & Picou, A. (June, 2022). *The English Language Learner Insight, Proficiency and Skills Evaluation (ELLIPSE) Corpus*. Presentation at Sig-Writing 2022. Umeå, Sweden.
- Crossley, S.A., Tian, Y., Baffour, B., Benner, M., Boser, U., & Picou, A. (June, 2022). *The Persuade Corpus*. Presentation at Sig-Writing 2022. Umeå, Sweden.
- Crossley, S.A., Tian, Y., Baffour, B., Benner, M., Boser, U., & Picou, A. (March, 2022). *The English Language Learner Insight, Proficiency and Skills Evaluation Corpus (ELLIPSE)*. Presentation at the American Association for Applied Linguists. Pittsburgh, PA.
- Crossley, S.A., Choi, J.S., Heintz, A., Batchelor, J., Karimi, M., & Malatinszky, A. (August, 2021). *A Large-Scale Corpus for Developing Readability Formulas*. Presentation at the 31st Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Crossley, S.A., Baffour, P., Tian, Y., Picou, A., Benner, M., & Boser, U. (August, 2021). *A Large-Scale Corpus for Assessing Discourse Elements in Writing*. Presentation at the 31st Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Crossley, S. A., Heintz, A., Choi, J., Batchelor, J., & Karimi, M. (June, 2021). *The CommonLit Ease of Readability (CLEAR) Corpus*. Poster Presentation at the 14th International Conference on Educational Data Mining (EDM). Paris, France.
- Crossley, S. A., Kim, M., Allen, L., & McNamara, D. S. (July, 2019). *Automated Summarization Evaluation (ASE) Using Natural Language Processing Tools*. Paper Presentation at the Artificial Intelligence in Education (AIED 2019). Chicago, IL.
- Crossley, S. A., Karumbaiah, S., Labrum, M., Ocumpaugh, J., & Baker, R. (May, 2019). *Predicting Math Success in an Online Tutoring System Using Language Data and Click-Stream Variables: A Longitudinal Analysis*. Presented at the Language Data and Knowledge (LDK) conference, Leipzig, Germany.

- Crossley, S., Bustamante, A., & Bradfield, F. (September, 2018). *GAMET: A tool for automatically assessing grammar and mechanic errors in learner corpora*. Presented at the 14th American Association for Corpus Linguistics (AACL) Conference. Atlanta, GA.
- Crossley, S. A. (July, 2018). *How Many Words Needed? Using Natural Language Processing Tools in Educational Data Mining*. Poster presentation at the 10th International Conference on Educational Data Mining (EDM). Buffalo, NY.
- Crossley, S. A., Ocumpaugh, J., Labrum, M., Bradfield, F., Dascalu, M., & Baker, R. (July, 2018). *Modeling Math Identity and Math Success through Sentiment Analysis and Linguistic Features*. Paper presentation at the 10th International Conference on Educational Data Mining (EDM). Buffalo, NY.
- Crossley, S. A., Sirbu, D., Dascalu, M., Barnes, T. Lynch, C., & McNamara, D. S. (June, 2018), *Modeling Math Success Using Cohesion Network Analysis*. Poster presentation at the 19th International Conference on Artificial Intelligence in Education (AIED). London, United Kingdom.
- Crossley, S.A., Skalicky, S., & Kyle, K. (March, 2018). *What's the frequency in it? A longitudinal analysis of second language lexical development*. Paper presented at the 2018 American Association for Applied Linguistics Conference. Chicago, IL.
- Crossley, S. A., & Kostyuk, V. (June, 2017). *Letting the Genie out of the Lamp: Using Natural Language Processing Tools to Predict Math Performance*. Presentation at the Language, Data, and Knowledge Conference. Galway, Ireland
- Crossley, S. A., Dascalu, M., & McNamara, D. S. (May, 2017). *How important is size? An Investigation of Corpus Size and Meaning in both Latent Semantic Analysis and Latent Dirichlet Allocation*. Poster Presentation at the 30th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, Florida.
- Heidari, A., D'Arienzo, M., Crossley, S.A., & Duran, N. (May, 2017). *Computational Analysis of Lexical and Cohesion Differences in Deceptive Language: The Role of Accordance*. Presentation at the 30th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, Florida.
- Crossley, S. A., & Skalicky, S. (April, 2017). *Making Sense of Polysemy Relations in English L1 and L2 Speakers*. Presentation at the 2017 Association American of Applied Linguistics Conference (AAAL 2017). Portland, OR.
- Crossley, S. A., Liu, R., & McNamara, D. S. (March, 2017) *Predicting math performance using natural language processing tools*. Presentation at the 7th International Learning Analytics and Knowledge (LAK) Conference. Vancouver, Canada.

- Crossley, S. A., Dascalu, M., Trausan-Matu, S., Allen, L., & McNamara, D. S. (August, 2016). *Document cohesion flow: Striving towards coherence*. Poster Presentation at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA.
- Crossley, S. A., Kyle, K., Davenport, J., & McNamara, D. S. (July, 2016). *Automatic Assessment of Constructed Response Data in a Chemistry Tutor*. Presentation at the 9th International Educational Data Mining (EDM) Society Conference, Raleigh, NC.
- Crossley, S. A., Paquette, L., Dascalu, M., McNamara, D., & Baker, R. (April, 2016). *Combining Click-Stream Data with NLP Tools to Better Understand MOOC Completion*. Presentation at the 6th International Learning Analytics and Knowledge (LAK) Conference, Edinburgh, Scotland.
- Crossley, S. A., Kyle, K., & Berger, C. M. (April, 2016). *Assessing lexical proficiency using the English Lexicon Project and a bit more*. Paper presentation at the 2016 American Association for Applied Linguistics (AAAL) Conference. Orlando, Florida, USA.
- Crossley, S. A., & Kyle, K. (October, 2015). *A usage-based investigation of L2 lexical acquisition: The role of input and output*. Paper presented at the 34th annual Second Language Research Forum (SLRF 2015), Atlanta, GA.
- Crossley, S. A., Kim, Y., Lester, T., & Clark, S. (July, 2015). *Embodied cognition and passive processing: What hand-tracking tells us about syntactic processing in L1 and L2 speakers of English*. Poster presentation at the 37th Annual Cognitive Science Society Meeting. Pasadena, CA.
- Crossley, S.A., Francuz Rose, D., & McNamara, D. S. (July, 2015). *That noun phrase is beneficial, but this is not: Discourse cohesion and text processing*. Presentation at the 25th Annual Meeting of the Society for Text and Discourse, Minneapolis, MN.
- Crossley, S. A., McNamara, D. S., Baker, R., Wang, Y., Paquette, L., Barnes, T., & Bergner, Y. (June, 2015). *Language to completion: Success in an educational data mining massive open online class*. Presentation at the 8th International Conference on Educational Data Mining, Madrid, Spain.
- Crossley, S. A., & McNamara, D. S. (May, 2014). *Developing Component Scores from Natural Language Processing Tools to Assess Human Ratings of Essay Quality*. Presentation at the 27th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Pensacola, FL.
- Crossley, S. A., Lester, T., Clark, S. & Kim, Y. (March, 2014). *Embodied cognition and passive processing: What hand-tracking tells us about syntactic processing in L1*

- and L2 speakers of English.* Presentation at the Annual American Association for Applied Linguistics Conference, Portland, OR.
- Crossley, S. A., Defore, C., Kyle, K., Dai, J., & McNamara, D. S. (July, 2013). *Paragraph specific n-gram approaches to automatically assessing essay quality.* Presentation at the Sixth International Conference on Educational Data Mining, Memphis, TN.
- Crossley, S. A., Varner, L., & McNamara, D. S. (July, 2013). *How important is the prompt? A study of prompt-based cohesion effects in essay writing.* Presentation at the 23rd Annual Meeting of the Society for Text and Discourse, Valencia, Spain.
- Crossley, S. A., Varner, L., Roscoe, R., & McNamara, D. S. (July, 2013). *Using automated cohesion indices as a measure of writing growth in intelligent tutoring systems and automated essay writing systems.* Presentation at the Artificial Intelligence in Education (AIED) Conference, Memphis, TN
- Crossley, S. A., Roscoe, R., & McNamara, D. S. (May, 2013). *Using Natural Language Processing Algorithms to Detect Changes in Student Writing in an Intelligent Tutoring System.* Presentation at the 26th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. St. Pete Beach, FL.
- Crossley, S. A., Varner, L., & McNamara, D. S. (May, 2013). *Cohesion-Based Prompt Effects in Argumentative Writing.* Presentation at the 26th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. St. Pete Beach, FL.
- Crossley, S. A., Yang, H. S., & McNamara, D.S. (March, 2013). *What's Simple about Simplified texts? What Computational and Psycholinguistic Experiments Tell Us about Text Comprehension and Text processing.* Presentation at the Annual American Association for Applied Linguists, Dallas, TX.
- Crossley, S. A., Salsbury, T., & Subtirelu, N. (October, 2012). *Frequency effects or context effects in second language word learning: What predicts early lexical production?* Presentation at the 31st Second Language Research Forum (SLRF), Pittsburg, PA.
- Crossley, S. A., & McNamara, D. S. (September, 2012). *Using rhetorical, contextual, and linguistic indices to predict writing quality.* Presentation at the 10th Annual Conference on Technology for Second Language Learning (TSLL). Ames, IA.
- Crossley, S. A., Cai, Z., & McNamara, D. S. (May, 2012). *Syntagmatic, paradigmatic, and automatic n-gram approaches to assessing essay quality.* Presentation at the 25th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, FL.

- Crossley, S. A. (October, 2011). *Cognition and corpus linguistics: What human judgments tell us about text quality*. Presentation at the 10th Annual American Association for Corpus Linguistics Conference, Atlanta, GA.
- Crossley, S. A., & McNamara, D. S. (August, 2011). *Text coherence and judgments of essay quality: Models of quality and coherence*. Poster presentation at the 29th Annual Conference of the Cognitive Science Society, Boston, MA.
- Raine, R., Mintz, L., Crossley, S. A., & McNamara, D. S. (May, 2011). *Text box size, skill, and iterative practice in a writing task*. Presentation at the 24th International Florida Artificial Intelligence Research Society. Palm Beach, FL.
- Crossley, S. A. (April, 2011). *A corpus approach to text readability: Intuitive text simplification and the validation of readability formulas*. Presentation at the Symposium on Exploring the Boundaries and Applications of Corpus Linguistics, Tuscaloosa, AL.
- Crossley, S. A., Salsbury, T., & McNamara, D. S. (March, 2011). *Validating lexical measures using human scores of lexical proficiency: Analytic scales, holistic scores, and computational indices*. Presentation at the Annual American Association for Applied Linguists, Chicago, IL.
- Crossley, S. A., & McNamara, D. S. (August, 2010). *Cohesion, coherence, and expert evaluations of writing proficiency*. Presentation at the 32nd Annual Conference of the Cognitive Science Society, Portland, OR.
- Crossley, S. A., & McNamara, D. S. (May, 2010). *Interlanguage talk: What can breadth of knowledge features tell us about input and output differences?* Presentation at the 23rd International Florida Artificial Intelligence Research Society (FLAIRS), Daytona Beach, FL.
- Crossley, S. A., Salsbury, T., & McNamara, D. S. (March, 2010). *Measuring language proficiency using breadth and depth of knowledge lexical indices*. Presentation at the Annual American Association for Applied Linguists, Atlanta, GA.
- Crossley, S. A., Renner, A., & McNamara, D. S. (November, 2009). *Semantic spaces in Writing Pal: Empirical studies, lesson development, and automatic feedback*. Poster presentation at the 2009 Society for Computers in Psychology Conference (SCiP), Boston, MA.
- Crossley, S. A., White, M. J., McCarthy, P. M., & McNamara, D. S. (November, 2009). *The effects of elaboration and cohesion on human evaluations of writing proficiency*. Poster presentation at the 2009 Society for Computers in Psychology Conference (SCiP), Boston, MA.

- Crossley, S. A., Boggess, G., & Salsbury, T. (May, 2009). *Exploring lexical network development in second language learners*. Presentation at the 22nd International Florida Artificial Intelligence Research Society (FLAIRS), Sanibel Island, FL.
- Crossley, S. A., Miller, N. C., McCarthy, P. M., & McNamara, D. S. (November, 2008). *Distinguishing between low and high proficiency essays using cognitively inspired computational indices*. Presentation at the 2008 Society for Computers in Psychology Conference (SCiP), Chicago, IL.
- Crossley, S. A., Salsbury, T. McCarthy, P. M. & McNamara, D. S. (May, 2008). *Using Latent Semantic Analysis to explore second language lexical development*. Presentation at the 21st International Florida Artificial Intelligence Research Society (FLAIRS), Coconut Grove, FL.
- Crossley, S. A., Salsbury, T., & McNamara, D. S. (April, 2008). *Using Latent Semantic Analysis to investigate the growth of L2 lexical networks*. Presentation at the Annual American Association for Applied Linguists, Washington, D.C.
- Crossley, S. A., Dufty, D. F., McCarthy, P. M. & McNamara, D. S. (August, 2007). *Toward a new readability: A mixed model approach*. Presentation at the 29th Annual Conference of the Cognitive Science Society, Nashville, TN.
- Crossley, S. A., McCarthy, P. M., and McNamara, D. S. (May, 2007). *Discriminating between second language learning text-types*. Presentation at the 20th International Florida Artificial Intelligence Research Society (FLAIRS), Key West, FL.
- Crossley, S. A., Hall, C., McCarthy, P. M., & McNamara, D. S. (March, 2007). *Means and meaning of identifying text simplification*. Presentation at the annual Teachers of English to Speakers of Other Languages (TESOL), Seattle, WA.
- Crossley, S. A. & McNamara, D. S. (October, 2006). *Identifying text simplification: Means and meaning*. Poster presentation at the annual Second Language Research Forum (SLRF), Seattle, WA.
- Crossley, S. A. & McNamara, D. S. (October, 2006). *Identifying text types: The case of humans and machines*. Presentation at the annual Second Language Research Forum (SLRF), Seattle, WA.
- Crossley, S. A. & McCarthy, P. M. (March, 2005). *Computational ESL*. Presentation at the annual Teachers of English to Speakers of Other Languages (TESOL), San Antonio, TX.
- Crossley, S. A. (November, 2004). *The effects of spatial and temporal cohesion in ESP writing*. Presentation at the annual Second Language Research Forum (SLRF), Pennsylvania State University, PA.

Crossley, S. A. (November, 2003). *The defamiliarization techniques of hip-hop music*. Presentation at the annual South Atlantic Modern Language Association (SAML A), Atlanta, GA.

Crossley, S. A. & Hall, C. (April, 2003). *Teaching large group oral language skills*. Presentation at the annual Teachers of English to Speakers of Other Languages (TESOL), Baltimore, MD.

Crossley, S. A. (March, 2002). *A structural analysis of the American murder ballad*. Presentation at the annual South-Eastern Conference on Linguistics (SECOL) LXVII, Baltimore, MD.

Refereed Conference Presentations (Not Main Presenter)

Öncel, P., Potter, A., Crossley, C., Allen, L. K., Xu, X., & McNamara, D. S. (November, 2024, November). *Analyzing source-based writing proficiency: A holistic approach using NLP algorithms*. 54th Annual Conference of The Society for Computation in Psychology, New York City, NY, USA.

Öncel, P., Potter, A., Crossley, C., McNamara, D. S., & Allen, L. K. (November, 2024). *Examining the cognitive mechanisms of writing: Introducing the Writing Assessment Tool (WAT)*. 54th Annual Conference of The Society for Computation in Psychology, New York City, NY, USA.

Boyle, J. & Crossley, S. (July, 2024). *Semantic Similarity of Teacher and Student Discourse Linked to Quality Ratings from Classroom Observations*. Poster presented at the 17th International Conference on Educational Data Mining (EDM). Atlanta, GA.

Choi, J., Morris, W., Holmes, L., Crossley, S. (July, 2024). *Focus Time and Writing Performance in an Intelligent Textbook*. Paper presented at the 17th International Conference on Educational Data Mining (EDM). Atlanta, GA.

Holmes L., Crossley, S.A., Wang, J., Zhang, W. (July, 2024). *The Cleaned Repository of Annotated Personally Identifiable Information*. Poster presentation at the 17th International Conference on Educational Data Mining (EDM) (2024). Atlanta, GA.

McCarthy, K., & Crossley, S. A. (July, 2024). *Supporting informed voting through simplifying information about complex ballot measures*. Poster presentation at the 33rd Annual Meeting of the Society for Text and Discourse. Chicago, IL.

Morris, W., Choi, J., Holmes, L., Gupta, V., & Crossley, S. A. (July, 2024). *Automatic Question Generation and Constructed Response Scoring in Intelligent Texts*.

- Presentation at the 17th International Conference on Educational Data Mining. Atlanta, GA.
- Öncel, P., Potter, A., Crossley, S. A., Allen, L., Xu, X., & McNamara, D. S. (July, 2024). *Analyzing Source-Based Writing Proficiency: A Holistic Approach Using NLP Algorithms*. Poster presentation at the 33rd Annual Meeting of the Society for Text and Discourse. Chicago, IL.
- Kim, M., Kim, J., Bae Y., Morris, W., Holmes, L., & Crossley, S. (June 2024). *How AI evaluates learner comprehension: A comparison of knowledge-based and large language model (LLM)-based AI approaches*. Presentation at the 18th International Conference of the Learning Sciences/Computer-Supported Collaborative Learning (ICLS/CSCL-2024). Buffalo, NY.
- Coscia, A., Holmes, L., Morris, W., Choi, J. S., Crossley, S. A., & Endert, A. (March, 2024). *iScore: Visual Analytics for Interpreting How Language Models Automatically Score Summaries*. Paper presented at the ACM Conference on Intelligent User Interfaces (IUI '24). Greenville, South Carolina
- Tang, K. A., Choi, J. S., Crossley, S. A., & Cutting, L. E. (January 2024). *Updated and Recalculated Grapheme-Phoneme Probabilities in American English*. Pacific Coast Research Conference, San Diego, CA.
- Holmes, L., & Crossley, S. A. (Novembers, 2023). *Word Surprisal Predicts Language Learner Proficiency*. Presentation at the Annual Meeting of the Society for Computation in Psychology (SCiP), San Francisco, CA.
- McCarthy, K. S., Choi, J. S., & Crossley, S. A. (Novembers, 2023). *Improving Text Simplification in a Real-World Context: Leveraging the Automatic Readability Tool for English (ARTE)*. Poster presentation at the Annual Meeting of the Society for Computation in Psychology (SCiP), San Francisco, CA.
- Kim, M. & Crossley, S. A. (October, 2023). *Automated evaluation of second language written and spoken opinion responses using linguistic features*. Presentation at the 2023 Applied Linguistics Association of Korea International Conference, Jeju, South Korea.
- Chong, M., Crossley, S. A., Martinez-Lincoln, A., Clemens, N., & Barnes, M. (July, 2023). *Effects of text and person characteristics on inference making during computerized instruction in struggling middle school readers*. Poster presentation at the Society for the Scientific Study of Reading Thirtieth Annual Meeting, Port Douglas, Qld, Australia.
- Holmes, L., Crossley, S. A., Morris, W., Sikka, H., & Trumbore, A. (July, 2023). *Deidentifying Student Writing with Rules and Transformers*. Poster presentation at

- the Proceedings of the 24th International Conference on Artificial Intelligence in Education (AIED). Tokyo, Japan.
- Morris, W., Crossley, S., Holmes, L., Ou, C., McNamara, D., Dascalu, M. (July, 2023) *Using Transformer Language Models to Provide Formative Feedback in Intelligent Textbooks*. Poster presentation at the Proceedings of the 24th International Conference on Artificial Intelligence in Education (AIED). Tokyo, Japan.
- McCarthy, K. S. & Crossley, S. A. (June, 2023). *Yea, Nay, or IDK: The Effects of Ballot Simplification on Voter Roll-off*. Presentation at the 33rd Annual Meeting of the Society for Text & Discourse. Oslo, Norway.
- Tian, Y., & Crossley, S. A. (June, 2023). *Making Sense of L1 and L2 Written Argumentation with Keystroke Logging*. Presentation at the 33rd Annual Meeting of the Society for Text and Discourse. Oslo, Norway.
- Morris, W., Crossley, S. A., Langdon, H., & Trumbore, A. (March, 2023) *Using Transformer Language Models to Validate Peer-Assigned Essay Scores in Massive Open Online Courses (MOOCs)*. Presentation at the Thirteenth International Conference on Learning Analytics & Knowledge (LAK), Arlington, Texas.
- Botarleanu, R., Dascalu, M., McNamara, D. S., Allen, L., & Crossley, S. A. (July, 2022). *Multitask Summary Scoring with ReaderBench*. Presentation at the 23rd International Conference on Artificial Intelligence in Education (AIED). Durham, United Kingdom.
- Botarleanu, R., Dascalu, M., Crossley, S. A., & McNamara, D. S. (July, 2022). *Automated paragraph detection using cohesion network analysis*. Presentation at the 7th conference on Smart Learning Ecosystems and Regional Development (SLERD). Bucharest, Romania.
- Choi, J. S., & Crossley, S. A. (July, 2022). *Local and Global Referential Overlap in Texts Grounded in Readability Formulas*. Presentation at the 32nd Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Kim, Y., & Crossley, S. A. (July, 2022). *The relationship between POS tag and human judgment-based text readability score*. Presentation at the 32nd Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Skalicky, S., Bell, N. D., Dascalu, M., & Crossley, S. A. (July, 2022). *"A fork is a food stabber": Linguistic creativity in English L1 and L2 speakers*. Poster Presentation at the 44th Annual Meeting of the Cognitive Science Society. Toronto, Ontario.

- Choi, J. S., & Crossley, S. A. (March, 2022). *New Readability Formula for L2 Reading*. Poster presented at the annual American Association for Applied Linguistics (AAAL) conference. Pittsburgh, Pennsylvania.
- Wan, Q., Tian, Y., & Crossley, S. A. (March, 2022). *Automated Content-Based Classification of Argumentative Components in Student Essays*. Paper presented at the American Association of Applied Linguistics (AAAL) 2022 Annual Conference, Pittsburgh, PA.
- Kim, M. & Crossley, S. A. (August, 2021). *Linguistic features linked to higher rated language use during second language speaking and writing performance: A cross-modality study*. Paper presented at the Association Internationale de Linguistique Appliquée (AILA), Virtual Conference.
- Nam, Y., Kim, M. & Crossley, S. A. (August, 2021). *Understanding second language reading and listening comprehension: Roles of working memory, inferencing-making, first language ability, and linguistic knowledge*. Paper presented at the Association Internationale de Linguistique Appliquée (AILA), Virtual Conference.
- Tian, Y., Kim, M. & Crossley, S. A. (August, 2021). *Cognitive processes in second language writing: Exploring the relationship among cognitive resources, writing processes, and written products*. Paper presented at the Association Internationale de Linguistique Appliquée (AILA), Virtual Conference.
- Tian, Y., Kim, M., & Crossley, S.A., (August, 2021). *Classifying Discourse Elements in L2 Argumentative Essays Using Writing Fluency Measures*. Presentation at the 31st Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Wan, Q., Crossley, S.A., Allen, L., & McNamara, D.S. (August, 2021). *A Differential N-gram Use Measure for Automated Essay Scoring*. Presentation at the 31st Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Botarleanu, R.-M., Dascalu, M., Allen, L.K., Crossley, S.A. & McNamara, D.S. (June, 2021). *Automated Summary Scoring with ReaderBench*. Paper presented at the the 17th International Conference on Intelligent Tutoring Systems (ITS 2021). Athens, Greece.
- Wan, Q., Crossley, S.A., Banawan, M., Balyan, R., Tian, Y., McNamara, D. S., & Allen, L. (June, 2021). *Automated Claim Identification Using NLP Features in Student Argumentative Essays*. Paper Presented at the 14th International Conference on Educational Data Mining (EDM). Paris, France.
- Botarleanu, R.-M., Dascalu, M., Watanabe, M., McNamara, D. S. & Crossley, S.A. (June, 2021). *Multilingual Age of Exposure*. Paper presented at Artificial Intelligence in Education. AIED 2021. Utrecht, Netherlands.

- Skalicky, S., Crossley, S. A., & Berger, C. M. (March, 2021). *Replication of Berger et al. (2019): Further insights from crowdsourced L2 lexical decision behaviour*. Paper presented at the 2021 American Association for Applied Linguistics (AAAL) Virtual Conference.
- Choi, J. S., & Crossley, S.A. (December, 2020) *Machine Readability Applications in Education*. Paper presented in the Advances and Opportunities: Machine Learning for Education workshop, Thirty-fourth Conference on Neural Information Processing Systems (NeurIPS 2020). Virtual Conference.
- Balyan, R., McNamara, D. S., Crossley, S. A., Liu, J., Karter, A., Schillinger, D. (November, 2020). *Reducing computational complexity and enhancing transportability in machine learning: Findings from the ECLIPPSE project*. Presentation at the 2020 Society for Computation in Psychology (SCiP). Virtual Conference.
- Wan, Q., Crossley, S. A., Allen, L., & McNamara, D. S. (November, 2020). *Predicting the quality of source-based essays using citation and quotation-related features*. Presentation at the 2020 Society for Computation in Psychology (SCiP). Virtual Conference.
- Schillinger, D., Balyan, R., Crossley, S.A., McNamara, D., Karter, A. J. (October, 2020) *Validity of a computational linguistics-derived automated health literacy measure across race/ethnicity: Findings from The ECLIPPSE Project*. Presentation at the Health Literacy Research Conference (HARC). Virtual Conference.
- Tian, Y., Kim, M., Crossley, S. A., & Wan, Q. (October, 2020). *The use of cohesive devices as an indicator of writing fluency for L2 undergraduate students*. Presentation at the 2020 Second Language Research Forum (SLRF), Nashville, TN.
- Choi, J., Crossley, S.A., (July, 2020). *Assessing readability formulas: A comparison of readability formula performance on the classification of simplified texts*. Presentation at the 30th Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Tian, Y., Kim, M., Crossley, S. A., & Wan, Q. (July, 2020). *The use of cohesive devices as an indicator of writing fluency for L2 undergraduate students*. Presentation at the 30th Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Tighe, E. L., Talwar, A., Kaldes, G., Crossley, S. A., Greenberg, D., & Doan, C. (2020, July). *Examining online eye movement characteristics in a predictive reading comprehension model with struggling adult readers*. Poster presentation at the 30th Annual Meeting of the Society for Text and Discourse, Virtual Conference.

- Tywoniw, R. & Crossley, S.A. (July, 2020). *Using automatic measurements of morphological features to distinguish spoken and written discourse*. Presentation at the 30th Annual Meeting of the Society for Text and Discourse Virtual Conference.
- Wan, Q., Crossley, S.A., Allen, L. K., & McNamara, D. S. (July, 2020). *Automated claim detection in argumentative essays and their relationship with writing quality*. Poster presentation at the 30th Annual Meeting of the Society for Text and Discourse, Virtual Conference.
- Botarleanu, R-M., Dascalu, M., Crossley, S. A., & McNamara, D. S. (June, 2020). *Sequence-to-sequence models for automated text simplification*. Poster Presented at Artificial Intelligence in Education. AIED 2020.
- Ocupaugh, J., Baker, R., Karumbaiah, S., Crossley, S. A., & Labrum, M. (June, 2020). *Affective sequences and student actions within reasoning mind*. Poster Presented at Artificial Intelligence in Education. AIED 2020.
- Tywoniw, R., Crossley, S. A., Ocupaugh, J., Karumbaiah, S., & Baker, R. (June, 2020) *Relationships between math performance and human judgments of motivational constructs in an online math tutoring system*. Poster Presented at Artificial Intelligence in Education. AIED 2020.
- Wan, Q., Crossley, S. A., Allen, L. K., & McNamara, D. S. (June, 2020). *Claim Detection and Relationship with Writing Quality*. Paper Presented at the Proceedings of the 13th International Conference on Educational Data Mining (EDM).
- Kim, M., & Crossley, S. A. (November, 2019). *Longitudinal assessment of second language writing in higher education: The roles of language and cognition*. Paper presented at 18th Symposium on Second Language Writing. Tempe, Arizona.
- Skalicky, S., Crossley, S.A., & Burger, C.M. (November, 2019). *Analysing the effects of lexical properties on lexical recognition behaviour of L2 English users*. Paper presented at the New Zealand Linguistic Society 2019 Conference. Christchurch, New Zealand.
- Kim, M., & Crossley, S. A. (July, 2019). *Expanding a model of second language reading and listening comprehension: The roles of language and cognition*. Poster to be presented at the 29th annual meeting of the Society for Text and Discourse (ST&D). New York, NY.
- Kim, M., Crossley, S. A., & Branum-Martin (July, 2019). *Gains in second language writing in relation to cognitive and language resources in higher education*.

Poster presented at the 29th annual meeting of the Society for Text and Discourse (ST&D). New York, NY.

Skalicky, S., Crossley, S. A., McNamara, D. S., & Muldner, K. (July, 2019). *Measuring creative ability in spoken bilingual text: The role of language proficiency and linguistic features*. Paper Presented at the 41st Annual Meeting of the Cognitive Science Society.

Sirbu, M., Dascalu, M., Crossley, S., McNamara, D., & Trausan-Matu, S. (June, 2019). *Longitudinal Analysis and Visualization of Participation in Online Courses Powered by Cohesion Network Analysis*. Paper Presentation at the 13th International Conference on Computer Supported Collaborative Learning (CSCL) 2019, Lyon, France.

Berger, C., Skalicky, S., & Crossley, S. A. (March, 2019). *Analysis of a large dataset of L2 lexical decision behavior to investigate L2 English word recognition*. Paper presented at the American Association for Applied Linguistics Conference, Atlanta, GA.

Kim, M., & Crossley, S. A. (March, 2019). *Assessing second language writing: The roles of language, cognitive resources, and the transcriber*. Poster presented at the American Association for Applied Linguistics Conference, Atlanta, GA.

McNamara, D. S., Allen, L., & Crossley, S. A. (March, 2019). *WAT: Writing Assessment Tool*. Presentation at the 9th International Learning Analytics and Knowledge (LAK) Conference. Tempe, Arizona.

Tywoniu, R., & Crossley, S. A. (March, 2019). Automated measurement of cohesion in L2 learner writing: beyond automated scoring. Paper presented at the American Association for Applied Linguistics Conference, Atlanta, GA.

Kim, M., & Crossley, S. A. (September, 2018). *Predicting second language writing and speaking scores using a testing corpus: The roles of linguistic features and individual differences*. Paper presented at the 14th American Association for Corpus Linguistics (AACL) Conference. Atlanta, GA.

Mbodj, N. B., Crossley, S. (September, 2018). *Learners' use of lexical bundles: Exploring the discipline and writing experience interface*. Paper presented at the 14th American Association for Corpus Linguistics (AACL) Conference. Atlanta, GA.

Monteiro, K., & Crossley, S. A. (September, 2018). *Monolingual and bilingual processing norms as explanatory variables of L2 writing quality*. Paper presented at the 14th American Association for Corpus Linguistics Conference (AACL 2018). Atlanta, GA.

- Ren, H., & Crossley, S. A. (September, 2018). *Psycholinguistic features and lexical sophistication in TOEFL writings: the effect of proficiency and L1 distance*. Paper presented at the 14th annual meeting of the American Association for Corpus Linguistics (AACL) Conference. Atlanta, GA
- Skalicky, S., & Crossley, S. A. (September, 2018). *Examining creativity in the Japanese Learners of English corpus*. Paper presented at the 14th American Association for Corpus Linguistics Conference. Atlanta, GA.
- Skalicky, S., & Crossley, S.A. (August, 2018). *The role of affective perceptions during the comprehension of written satire*. Paper presented at the 2018 Metaphor Festival Conference. Amsterdam, Netherlands
- Skalicky, S. & Crossley, S.A. (June, 2018). *Linguistic features of sarcasm and metaphor production quality*. Paper presented at the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies Workshop on Figurative Language Processing. New Orleans, LA.
- Semere, W., Crossley, S., Karter, A. J., Lyles, C., McNamara, D., Liu, J., & Schillinger, D. (April, 2018). *Caregiving for Patients with Diabetes in the Era of Online Patient Portals: Findings from the ECLIPPSE Study*. Poster presented at the Society of General Internal Medicine Annual Meeting. Denver, CO.
- Ruseti, S., Dascalu, M., Johnson, A., McNamara, D., Balyan, R., Kopp, K., Crossley, S. A., & Trausan-Matu, S. (June, 2018). *Predicting Question Quality using Recurrent Neural Networks*. Presentation at the 19th International Conference on Artificial Intelligence in Education (AIED). London, United Kingdom.
- Sirbu, D., Dascalu, M., Crossley, S. A., McNamara, D. S., Barnes, T., Lynch, C., & Trausan-Matu, S. (June, 2018). *Exploring Online Course Sociograms using Cohesion Network Analysis*. Presentation at the 19th International Conference on Artificial Intelligence in Education (AIED). London, United Kingdom.
- Botarleanu, R., Dascalu, M., Sirbu, D., Crossley, S. A., & Trausan-Matu, S. (May, 2018). *ReadME - Generating Personalized Feedback for Essay Writing using the ReaderBench Framework*. Presentation at the 3rd International Conference on Smart Learning Ecosystems and Regional Development. Aalborg, Denmark
- Andes, J. M., Baker, R., Gašević, D., Siemens, G., Crossley, S. A., & Joksimović, S. (March, 2018). *Using the MOOC Replication Framework to Examine Course Completion*. Presentation at the 8th International Learning Analytics and Knowledge (LAK) Conference. Sydney, Australia
- Kim, M., & Crossley, S. A. (March, 2018). *Latent structure of the ECCE: Discovering relationships among reading, listening, writing, speaking, and lexico-*

grammatical ability. Paper presented at the annual American Association for Applied Linguistics (AAAL) conference. Chicago, IL.

Monteiro, K., Crossley, S. A., Kyle, K. (March, 2018). *In search of new benchmarks: Using non-native lexical frequency and contextual diversity indices to assess language learning*. Presentation at the 2018 American Association for Applied Linguistics Conference (AAAL 2018). Chicago, IL.

Tywoniw, R. & Crossley, S. A. (September, 2018). *Using Cohesive Features to Automatically Classify Integrated and Independent L2 Writing Assessment and Predict Human Judgments of Quality*. Poster presented at the 14th annual meeting of the American Association for Corpus Linguistics. Atlanta, GA.

Skalicky, S., Crossley, S. A., & McNamara, D. S. (March, 2018). *Assessing creativity in bilingual speech production*. Paper presented at the 2018 American Association for Applied Linguistics Conference. Chicago, IL.

Andres, J. M., Baker, R., Siemens, G., Gašević, D., Spann, C. & Crossley, S. (July, 2017). *Studying MOOC Completion at Scale Using the MOOC Replication Framework*. Presentation at Educational Data Mining (EDM). Wuhan, China.

Crossley, S.A., Barnes, T., Lynch, C., & McNamara, D.S. (July, 2017). *Linking language to math success in a blended course*. Presentation at Educational Data Mining (EDM). Wuhan, China.

Dascalu, M., Allen, K. A., McNamara, D. S., Trausan-Matu, S., & Crossley, S. A. (July, 2017). *Modeling comprehension processes via automated analyses of dialogism*. Poster presentation at the 39th Annual Meeting of the Cognitive Science Society (CogSci 2017). London, England.

Kopp, K. J., Johnson, A. M., Crossley, S. A., & McNamara, D. S. (July, 2017). *Assessing Question Quality Using Natural Language Processing*. Presentation at the 18th International Conference on Artificial Intelligence in Education (AIED 2017). Wuhan, China.

Kopp, K. J., Johnson, A. M., Crossley, S. A., & McNamara, D. S. (July, 2017). *Ask the Right Questions: Natural Language Processing Indices to Predict Question Quality*. Poster presented at the 27th annual meeting of the Society for Text and Discourse. Philadelphia, PA.

Kim, M., & Crossley, S. A. (July, 2017). *Linking reading and writing in first and second languages for Korean learners of English: Moderation, mediation, and path analyses*. Poster presented at the 27th annual meeting of the Society for Text and Discourse. Philadelphia, PA.

- Kim, M., & Crossley, S. A. (July, 2017). *Modeling second language writing proficiency: A structural equation investigation of linguistic and discourse features in source-based and independent writing*. Poster presented at the 27th annual meeting of the Society for Text and Discourse. Philadelphia, PA.
- Skalicky, S., & Crossley, S. A. (July, 2017). *Age and Prior Knowledge Affect the Processing and Comprehension of Satirical Text*. Poster presented at the 27th annual meeting of the Society for Text and Discourse. Philadelphia, PA
- Skalicky, S., Crossley, S. A., Dascalu, M., McNamara, D. S., & Muldner, K. (July, 2017). *Measuring Collaboration During Creative Problem Solving Using Linguistic Features*. Poster presented at the 27th annual meeting of the Society for Text and Discourse. Philadelphia, PA.
- Crossley, S., Dascalu, M., Baker, R., McNamara, D. S., & Trausan-Matu, S. (June, 2017). *Predicting Success in Massive Open Online Courses (MOOC) Using Cohesion Network Analysis*. Paper presentation at the 12th International Conference on Computer Supported Collaborative Learning (CSCL). Philadelphia, Pennsylvania.
- Skalicky, S., Crossley, S.A., McNamara, D.S., and Muldner, K. (May, 2017). *Automatically identifying humorous and persuasive language produced during a creative problem-solving task*. Presentation at the 30th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, Florida.
- Berger, C. M., & Crossley, S. (April, 2017). *Using text analysis tools to analyze human judgments of spoken proficiency: Existing methods, novel indices, and larger corpora*. Presentation at the 2017 Association of American Applied Linguistics Conference (AAAL 2017). Portland, OR.
- Garner, J. R., Crossley, S. A., & Kyle, K. (April, 2017). *N-gram Measures and L2 Writing Proficiency*. Presentation at the 2017 Association of American Applied Linguistics Conference (AAAL 2017). Portland, OR.
- Kim, Y. J., & Crossley, S. A. (April, 2017) *Text Integration and Speaking Proficiency: Linguistic, Individual Differences, and Strategy Use Considerations*. Presentation at the 2017 Association of American Applied Linguistics Conference (AAAL 2017). Portland, OR.
- Kyle, K. & Crossley, S. A. (April, 2017). *Measuring longitudinal writing development: A usage based perspective*. Presentation at the 2017 Association of American Applied Linguistics Conference (AAAL 2017). Portland, OR.
- Berger, C. M., Crossley, S., & Kyle, K. (September, 2016). *Using native-speaker word recognition norms to assess spoken lexical proficiency in second language*

- learners*. Paper presented at Second Language Research Forum (SLRF) 2016. New York, New York, USA.
- Jung, Y., & Crossley, S. A. (September, 2016). *Stylistic alignment in natural conversation involving L2 speakers*. Paper presented at the 35th Annual Meeting of the Second Language Research Forum (SLRF). New York, NY.
- Kyle, K. & Crossley, S. A. (September, 2016). *Measuring longitudinal writing development: A usage-based perspective*. Presentation at the 2016 Second Language Research Forum (SLRF 2016). New York, New York.
- Skalicky, S. & Crossley, S. A. (September, 2016). *Semantic priming of polysemous word senses in English L1 and L2 speakers*. Paper presented at the 2016 Second Language Research Forum Conference (SLRF), New York, NY.
- Secui, A., Sirbu, D., Dascalu, M., Crossley, S., Ruseti, S., & Trausan-Matu, S. (September, 2016) *Expressing Sentiments in Game Reviews*. Presentation at the 17th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA, 2016). Varna, Bulgaria.
- Sirbu, M. D., Secui, A., Dascalu, M., Crossley, S. A., Ruseti, S., & Trausan-Matu, S. (September, 2016). *Extracting Gamers' Opinions from Reviews*. Presentation at the 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2016). Timisoara, Romania.
- Dascalu, M., Popescu, E., Becheru, Alexandru, Crossley, S., & Trausan-Matu, S. (September, 2016). *Predicting Academic Performance Based on Students' Blog and Microblog Posts*. Presentation at the 11th European Conference on Technology Enhanced Learning (EC-TEL 2016). Lyon, France.
- Allen, L. K., Dascalu, M., McNamara, D.S., Crossley, S., & Trausan-Matu, S. (July, 2016). *Modeling Individual Differences among Writers Using ReaderBench*. Presentation at the 8th annual International Conference on Education and New Learning Technologies (EduLearn). Barcelona, Spain.
- Popescu, Dascalu, M., & Crossley, S. A. (July, 2016). *Predicting Student Performance and Differences in Learning Styles based on Textual Complexity Indices applied on Blog and Microblog Posts. A Preliminary Study*. Presentation at the 16th IEEE International Conference on Advanced Learning Technologies (ICALT). Austin, TX.
- Skalicky, S., & Crossley, S. A. (July, 2016). *Processing of homographic meaning in puns and non-puns*. Poster presented at the 26th Annual Meeting of the Society of Text and Discourse. Kassel, Germany.
- Skalicky, S., Crossley, S. A., McNamara, D., & Muldner, K. (July, 2016). *Predicting*

creativity in task-based problem solving using linguistic features. Poster presented at the 26th Annual Meeting of the Society of Text and Discourse. Kassel, Germany.

Allen, L. K., Mills, C., Jacovina, M. E., Crossley, S. A., D'Mello, S. K., & McNamara, D. S. (April, 2016). *Investigating boredom and engagement during writing using multiple sources of information: The essay, the writer, and keystrokes*. Presentation at the 6th International Learning Analytics and Knowledge (LAK) Conference. Edinburgh, Scotland.

Berger, C. M., Crossley, S. A., & Skalicky, S. (March, 2016). *Frequency vs. productivity: Processing and understanding novel verbs in verb argument constructions*. Paper presentation at the 2016 American Association for Applied Linguistics (AAAL) Conference. Orlando, FL.

Garner, J. R. & Crossley, S. A. (March, 2016). *Influence of Discipline Membership on Non-Domain Specific EFL Student Writing: The Case of Cohesion and Lexical Differences*. Presented at the 2016 American Association for Applied Linguistics (AAAL) Conference. Orlando, FL.

Kyle, K. & Crossley, S. A. (March, 2016). *Assessing written L2 lexical proficiency: The varying roles of word frequency, n-gram frequency, and n-gram association strength*. Presentation at the 2016 Association of American Applied Linguistics Conference (AAAL 2016). Orlando, FL.

Dascalu, M., McNamara, D.S., Crossley, S.A., & Trausan-Matu, S. (February, 2016). *Age of Exposure: A Model of Word Learning*. Presentation at the Thirtieth AAAI Conference on Artificial Intelligence (AAAI) Conference. Phoenix, AZ.

Berger, C. M., Skalicky, S., Crossley, S. A., & McNamara, D. (December, 2015). *Using computational linguistic indices to predict humor in academic writing*. Poster presentation at the 2015 Atlanta Computational Social Science Workshop (CSS 2015). Atlanta, GA.

D'Arienzo, M., Duran, N.D., & Crossley, S.A. (December 2015). *Lying and lexicality: Using computational tools to detect deception*. Poster presented at the 2015 Atlanta Computational Social Science Workshop (CSS 2015). Atlanta, GA.

Heidari, A., Crossley, S. A., & Duran, N. (December, 2015). *Extracting cohesive indices of deceptive language using TAACO*. Poster presentation at the Atlanta Computational Social Science Workshop (CSS 2015). Atlanta, GA.

Skalicky, S., Crossley, S. A., McNamara, D., & Moulder, K. (December, 2015). *Linguistic features of creativity and elaboration*. Poster presented at the 2015 Atlanta Computational Social Science Workshop (CSS 2015). Atlanta, GA.

- Berger, C., Crossley, S. A., Allen, L. K., & Verspoor, M. (October, 2015). *Random walks in learner writing: The nonlinear development of lexical and syntactic complexity*. Paper presented at the 34th annual Second Language Research Forum (SLRF 2015), Atlanta, GA.
- Kyle, K., & Crossley, S. A. (October, 2015). *Predicting Holistic Scores of TOEFL Essays using Indices of Syntactic Development: New Perspectives*. Paper presented at the 34th annual Second Language Research Forum (SLRF 2015), Atlanta, GA.
- Allen, L. K., Crossley, S. A., Snow, E. L., Jacovina, M. E., Perret, C., & McNamara, D. S. (July, 2015). *Am I wrong or am I right? Gains in monitoring accuracy in an intelligent tutoring system for writing*. Poster to be presented at the annual meeting of the Society for Text and Discourse. Minneapolis, MN
- Allen, L., Crossley, S. A., Snow, E., Jacovina, M., Perret, C., & McNamara, D. (June, 2105). *Am I wrong or am I right? Gains in monitoring accuracy in an intelligent tutoring system for writing*. Poster presentation at the Artificial Intelligence in Education (AIED) Conference, Madrid, Spain.
- Allen, L., Crossley, S. A., & McNamara, D. S. (June, 2015). *Predicting misalignments between teachers' and students' essay scores using natural language processing tools*. Poster presentation at the Artificial Intelligence in Education (AIED) Conference, Madrid, Spain.
- Berger, C., Skalicky, S., Crossley, S., & McNamara, D. (June, 2015). *It is a little known fact that Batman does not pick up his soda cans: Measuring humor in student academic Writing*. Paper presented at the 2015 International Humor Conference, Oakland CA.
- Skalicky, S., Berger, C., & Crossley, S. (June, 2015). *Study finds jack shit: An investigation of the mental processing of satirical Onion headlines*. Paper presented at the 2015 International Humor Conference, Oakland CA.
- Kyle, K., Crossley, S. A. (June, 2015). *Writing task performance: A usage based perspective*. Presentation at the second Thinking, Doing, Learning conference. Groningen, Netherlands.
- Kyle, K., Crossley, S. A. (May, 2015). *Measuring syntactic development in longitudinal learner corpora from a usage-based perspective*. Presentation at the 36th International Computer Archive of Modern and Medieval English (ICAME) Conference. Trier, Germany.
- Crossley, S. A., Allen, L., & McNamara, D. S. (April, 2015). *A Diachronic Analysis of First Grade Reading Texts: Shifts and Patterns Detected Using Automatic Analyses*. Poster presented at the 2015 Annual Meeting of the American Education Research Association, Chicago, IL.

- Crossley, S. A., & Kyle, K. (March, 2015). *Automatically Assessing Lexical Proficiency Using TAALES: Applications for Assessment*. Round Table Presentation at the Annual American Association for Applied Linguistics Conference, Toronto, Ontario.
- Kyle, K., & Crossley, S. A. (March, 2015). *Automatically Assessing Syntactic Complexity: Traditional, Revised, and New Measures*. Presentation at the Annual American Association for Applied Linguistics Conference, Toronto, Ontario.
- Crossley, S.A., Varner, L., Snow, E., & McNamara, D. S. (March, 2015). *Pssst... Textual Features... There is more to Automatic Essay Scoring than Just You!* Paper presented at the 5th International Learning Analytics and Knowledge Conference, Poughkeepsie, NY.
- Jung, Y., & Crossley, S. A. (October, 2014). *Subject/object asymmetry in processing relative clauses in L2 Korean: Evidence from a hand-tracking study*. Paper presented at the 33rd annual Second Language Research Forum (SLRF 2014), Columbia, SC.
- Murphy, C. M., & Crossley, S. (September, 2014). *Co-occurring linguistic features in an L2 writing corpus: Insights into prompt effects and successful writing*. Presentation at the American Association for Corpus Linguistics 2014 Conference, Flagstaff, AZ.
- Skalicky, S., & Crossley, S. (September, 2014). *Satirical irony in Amazon.com product reviews*. Presentation at the American Association for Corpus Linguistics 2014 Conference, Flagstaff, AZ.
- Crossley, S. A., Kyle, K., Varner, L., & McNamara, D. S. (July, 2014). *How important are grammar and mechanics in writing assessment and instruction? Evidence from essay analyses*. Presentation at the Seventh International Conference on Educational Data Mining, London, UK.
- Jung, Y., Crossley, S. A., & McNamara, D. S. (July, 2014). *Linguistic features in MELAB writing task performances*. Paper presented at the Korea Association of Teachers of English (KATE) 2014 International Conference, Seoul, Korea.
- Roscoe, R., Crossley, S. A., Snow, E., Varner, L., & McNamara, D. S. (May, 2014). *Writing Quality, Knowledge, and Comprehension Correlates of Human and Automated Essay Scoring*. Presentation at the 27th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Pensacola, FL.
- Jung, Y., Crossley, S. A., & McNamara, D. S. (March, 2014). *Linguistic features in MELAB writing task performances*. Poster Presentation at the Annual American Association for Applied Linguistics Conference, Portland, OR.

- Kyle, K., Crossley, S. A., & McNamara, D.S. (March, 2014). *Construct validity of TOEFL iBT spoken assessment tasks: Insights from natural language processing*. Presentation at the Annual American Association for Applied Linguistics Conference, Portland, OR.
- Varner, L. K., Crossley, S. A., Snow, E. L., & McNamara, D. S. (November, 2013). *You are your words: Linguistic correlates of cognitive task performance*. Poster presented at the 2013 Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Varner, L. K., Snow, E. L., Crossley, S. A., & McNamara, D. S. (November, 2013). *Whad'ya say? Examining linguistic correlates of students' abilities*. Paper presented at the 43rd Annual Meeting of the Society for Computers in Psychology, Toronto, Canada.
- Kyle, K., Crossley, S. A. (October, 2013). *The effects of proficiency on crosslinguistic influence*. Presentation at the 32nd Annual Second Language Research Forum, Provo, UT.
- Varner, L., Roscoe, R., Crossley, S. A., & McNamara, D. S. (July, 2013). *Developing Pedagogically-Guided Threshold Algorithms for Intelligent Automated Essay Feedback*. Poster presentation at the 23rd Annual Meeting of the Society for Text and Discourse, Valencia, Spain.
- Kyle, K., Crossley, S.A., Dai, J., & McNamara, D.S. (June, 2013). *Native language identification: A key ngrams approach*. Presentation at the Annual Conference of the North American Association for Computational Linguistics.
- McNamara, D. S., Roscoe, R., & Crossley, S. A. (April, 2013). *Automated Scoring and Feedback in the Writing Pal: An Intelligent, Game-based, Writing Strategy Tutor*. Structured Poster Session at the Annual Conference of the American Education Research Association (AERA), San Francisco, CA.
- Polat, B. & Crossley, S. A. (March, 2013). *In Their Own Words: Identifying Individual Differences through Semantic Content Analysis*. Presentation at the Annual American Association for Applied Linguists, Dallas, TX
- Collins-Thompson, K., Frishkoff, G., & Crossley, S. A. (November, 2012). *Definition response scoring with probabilistic ordinal regression*. Presentation at the 20th International Conference on Computers in Education (ICCE). National Institute of Education, Nanyang Technological University, Singapore.
- Goodwin, S., & Crossley, S. A. (October, 2012). *Predicting ESL examinee writing scores using the Academic Formula List*. Presentation at the 31st Second Language Research Forum (SLRF), Pittsburg, PA.

- Allen, D., Mills, S., & Crossley, S. A. (September, 2012). *Peer Response and Writer-Reviewer Proficiency*. Presentation at the 11th Symposium on Second Language Writing (SSLW). West Lafayette, IN.
- Goodwin, S. J., Crossley, S. A., & Guo, L. (September, 2012). *Predicting ESL Examinee Writing Scores Using the Academic Formula List*. Presentation at the 10th Annual Conference on Technology for Second Language Learning (TSLL). Ames, IA.
- Frishkoff, G. A., Collins-Thompson, K., Perfetti, C., & Crossley, S. A. (July, 2012). *A test of incremental and adaptive word learning from context*. Presentation at the 19th Annual Meeting of the Society for the Scientific Study of Reading (SSSR), Montreal, Canada.
- Brandon, R., Crossley, S. A., & McNamara, D. S. (May, 2012). *A linguistic analysis of expert-generated paraphrases*. Poster presentation at the 25th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, FL.
- Roscoe, R., Kugler, D., Crossley, S. A., Weston, J., & McNamara, D. S. (May, 2012). *Developing pedagogically-guided threshold algorithms for intelligent automated essay feedback*. Presentation at the 25th International Florida Artificial Intelligence Research Society (FLAIRS) Conference. Marco Island, FL.
- McNamara, D. S., Roscoe, R., Crossley, S. A., Cai, Z., & Graesser, A. (November, 2011). *Natural language processing in a writing strategy tutoring system*. Presentation at the 2011 Society for Computers in Psychology Conference (SCiP), Seattle, WA.
- Polat, B., & Crossley, S. A. (October, 2011). *Exploring metacognitive conceptualization using Linguistic Inquiry and Word Count (LIWC)*. Presentation at the 10th Annual American Association for Corpus Linguistics Conference, Atlanta, GA.
- Crossley, S. A., & McNamara, D. S. (September, 2011). *Predicting expert ratings of essay quality: A Coh-Metrix analysis*. Paper presented at the 2011 European Association for Research on Learning and Instruction conference, Exeter, United Kingdom.
- McNamara, D. S., Roscoe, R., Tanner, G. T., Jianmin, D., Raine, R., Russell, B., Weston, B., Kim, L., Graesser, A., & Crossley, S. A. (September, 2011). *The Writing-Pal: An intelligent tutoring system to provide writing strategy training*. Paper presented at the 2011 European Association for Research on Learning and Instruction conference, Exeter, United Kingdom.
- Crossley, S. A., Roscoe, R. D., McNamara, D. S., & Graesser, A. (June, 2011). *Predicting human scores of essay quality using computational indices of linguistic and textual features*. Poster Presentation at the 15th International Conference on Artificial Intelligence in Education, Auckland, New Zealand.

- Feng, S., Cai, C., Crossley, S. A., & McNamara, D. S. (May, 2011). *Simulating human ratings on word concreteness*. Presentation at the 24th International Florida Artificial Intelligence Research Society, Palm Beach, FL.
- Roscoe, R. D., Crossley, S. A., Westong, J. L., & McNamara, D. S. (May, 2011). *Automated assessment of paragraph quality: Introductions, body, and conclusion paragraphs*. Presentation at the 24th International Florida Artificial Intelligence Research Society, Palm Beach, FL.
- Roscoe, R. D., Varner, L. K., Cai, Z., Weston, J. L., Crossley, S. A., & McNamara, D. S. (May, 2011). *Internal usability testing of automated essay feedback in an intelligent writing tutor*. Presentation at the 24th International Florida Artificial Intelligence Research Society, Palm Beach, FL.
- Rus, V., Feng, S., Brandon, R., Crossley, S. A., & McNamara, D. S. (May, 2011). *A linguistic analysis of student-generated paraphrases*. Presentation at the 24th International Florida Artificial Intelligence Research Society, Palm Beach, FL.
- Weston, J. L., Crossley, S. A., McCarthy, P. M., & McNamara, D. S. (May, 2011). *Number of words versus number of ideas: Finding a better predictor of writing quality*. Presentation at the 24th International Florida Artificial Intelligence Research Society, Palm Beach, FL.
- Salsbury, T., & Crossley, S. A. (March, 2011). *Path breaking collocates in developing elementary mathematics language and thinking*. Presentation at the Annual American Association for Applied Linguists, Chicago, IL.
- McNamara, D. S. & Crossley, S. A. (January 2011). *Capturing coherence in writing*. Paper presented at the Thirty-sixth Annual Interdisciplinary Conference, Jackson Hole, WY.
- Weston, J., Crossley, S. A., & McNamara, D. S. (May 2010). *Towards a computational assessment of freewriting quality*. Presentation at the 23rd International Florida Artificial Intelligence Research Society (FLAIRS), Daytona Beach, FL.
- Salsbury, T., Crossley, S.A., & McNamara, D.S. (March, 2010). *Measuring the spoken lexical proficiency of L2 learners using computational indices*. Presentation at the Annual American Association for Applied Linguists, Atlanta, GA.
- McNamara, D. S. & Crossley, S. A. (January 2010). *The role of cohesion in writing*. Paper presented at the Thirty-Fifth Annual Interdisciplinary Conference, Jackson Hole, WY.
- Duran, N., Crossley, S. A., McCarthy, P. M., Hall, C., & McNamara, D. (May 2009). *Using Coh-Metrix to analyze deception with linguistic indices*. Presentation at the

22nd International Florida Artificial Intelligence Research Society (FLAIRS),
Sanibel Island, FL.

Salsbury, T., & Crossley, S. A. (March, 2009) *Lexical development in the discourse of mathematics among English language learners*. Presentation at the Annual American Association for Applied Linguists, Denver, CO.

Crossley, S. A. & Anderson, T. A. (July 2008) *Rue with a difference: A stylistic analysis of the rhetoric of suicide in Hamlet*. Presentation at 11th international conference of the International Society for the Empirical Study of Literature and Media. Memphis, TN.

Crossley, S. A., Salsbury, T., McCarthy, P. M., & McNamara, D. S. (July 2008) *LSA as a measure of second language natural discourse*. Poster Presentation at the 30th annual conference of the Cognitive Science Society. Washington, D.C.

McCarthy, P. M., Rus, V., Crossley, S. A., Graesser, A. C., & McNamara, D. S. (May, 2008). *Assessing forward-, reverse-, and average entailment indices on natural language input from the intelligent tutoring system, iSTART*. Presentation at the 21st International Florida Artificial Intelligence Research Society (FLAIRS), Coconut Grove, FL.

Salsbury, T., Crossley, S. A., & McNamara, D. S. (April, 2008). *Psycholinguistic word information in second language oral discourse*. Presentation at the Annual American Association for Applied Linguists, Washington, D.C.

McCarthy, P. M., Rus, V., Crossley, S. A., Bigham, S. C., Graesser, A. C., & McNamara, D. S. (May, 2007). *Assessing entailment with a corpus of natural language from an intelligent tutoring system*. Presentation at the 20th International Florida Artificial Intelligence Research Society (FLAIRS), Key West, FL.

Crossley, S. A. & Hempelmann, C. F. (July, 2006). *Church puns: The humor of the Christian marquee board*. Presentation at the 18th International ISHS Humor Conference, Copenhagen, Denmark.

Crossley, S. A., McCarthy, P. M., Lewis, G. A., Dufty, D. F., Louwerse, M. M. & McNamara, D. S. (July, 2006). *Detecting manipulated texts*. Poster presentation at the 28th annual conference of the Cognitive Science Society. Vancouver, British Columbia, Canada.

Dufty, D. F., Graesser, A. C., Lightman, E., Crossley, S. A., and McNamara, D. S. (July, 2006). *An algorithm for detecting spatial cohesion in text*. Presentation at the 16th Annual Meeting of the Society for Text and Discourse, Minneapolis, MN.

Louwerse, M. M. & Crossley, S. A. (May, 2006). *Dialog act classification using n-gram algorithms*. Presentation at the annual Florida Artificial Intelligence Research Society (FLAIRS), Melbourne, FL.

Workshops Coordinated

Coordinator with Ute Römer (August, 2013). *R Corpus Linguistics Boot Camp*. Presented by Stefan Gries at Georgia State University, Atlanta, GA.

Coordinator with Ute Römer (August, 2013). *R Statistics Boot Camp*. Presented by Stefan Gries at Georgia State University, Atlanta, GA.

University Teaching

Subject Undergraduate (U), Graduate (G)	Times	Institution
Natural Language Processing (G)	2	Vanderbilt University
Computational Language Analysis (G)	1	Vanderbilt University
Fundamentals of Learning Analytics (G)	2	Vanderbilt University
Foundations of Data Science (U)	1	Vanderbilt University
Applied Natural Language Processing (G)	2	Georgia State University
Language and Computers (U)	2	Georgia State University
Languages of the World (U)	5	Georgia State University
Natural Language Processing (G)	1	Georgia State University
Psycholinguistics (G)	5	Georgia State University/Temple University Japan
Quantitative Research Methods (G)	5	Georgia State University
Second Language Acquisition (G)	2	Georgia State University
Second Language Lexicon (G)	1	Georgia State University
Study Abroad TEFL (U), (G)	2	Georgia State University
Syntax and Morphology (U)	7	Georgia State University
General Linguistics (G)	3	Georgia State University
Advanced Composition (U)	1	Mississippi State University
Approaches to TESOL (U), (G)	5	Mississippi State University
Introduction to Linguistics (U), (G)	5	Mississippi State University
Language Myths (U)	1	Mississippi State University
Linguistics and Literature (U), (G)	1	Mississippi State University
Natural Language Processing (U)	1	Mississippi State University
Second Language Acquisition (U), (G)	5	Mississippi State University
Syntax (U), (G)	3	Mississippi State University
TESOL Methods (U), (G)	4	Mississippi State University
TESOL Practicum (U), (G)	3	Mississippi State University
Business English (U)	2	ITESM
Analytic Composition (U)	2	University of Memphis
Modern Grammar (U)	3	University of Memphis
Practical Grammar (U)	1	University of Memphis

Honors/Awards: Mentored Students

Honor/Award	Student	Institution	Year
Language and Literacy Undergraduate Scholarship	Maurice Thomas	Georgia State University	2020
Language and Literacy Undergraduate Scholarship	Zane Brown	Georgia State University	2013
McNair Post-Baccalaureate Achievement Program	Tiffany Lester	Georgia State University	2012
Language and Literacy Undergraduate Scholarship	Jonathan McNair	Georgia State University	2011
Mississippi Daily Journal Undergraduate Research Scholarship	Laura Varner	Mississippi State University	2009

Honor's Thesis Advisor

University/Department	Name	Year
GSU/Psychology	Taylor Brooks (with Gwen Frishkoff)	2013
GSU/Applied Linguistics	Jonathan McNair	2012

Undergraduate Immersion Advisor

University/Department	Name	Year
Vanderbilt/Economics	Jared Wheatley	2023

Undergraduate Directed Internships

University/Department	Name	Year
Vanderbilt/Data Science Institute	Fan Bu	2022
Vanderbilt/Data Science Institute	Victoria Tung	2022
Vanderbilt/Data Science Institute	Jiahe Wang	2022
Vanderbilt/Data Science Institute	Weixuan Zhang	2022
GSU/Applied Linguistics	Robert Haynes	2022
GSU/Applied Linguistics	Dylan Kuehl	2022
GSU/Applied Linguistics	Zahri Monroe	2021
GSU/Applied Linguistics	Susan Sams	2021
GSU/Applied Linguistics	Gustavo Soussumi	2021
GSU/Applied Linguistics	Jhoana Valeria Uribe Maza	2021
GSU/Applied Linguistics	Cristina Limas	2021
GSU/Applied Linguistics	Joselyn Maldonado	2021
GSU/Applied Linguistics	Melody Yates	2021
GSU/Applied Linguistics	Emily Atkins	2020
GSU/Applied Linguistics	Gordie Maldonado	2020
GSU/Applied Linguistics	Alora Pruitt	2020
GSU/Applied Linguistics	Shannon Ullrich	2020
GSU/Applied Linguistics	Jessica Burer	2019

GSU/Applied Linguistics	Maurice Thomas	2019
GSU/Applied Linguistics	Keegan Wray	2018
GSU/Applied Linguistics	Jacob Snyder	2017
GSU/Applied Linguistics	Onisim Nistor	2017
GSU/Applied Linguistics	Victoria Morrison	2017
GSU/Applied Linguistics	Jacob Snyder	2017
GSU/Applied Linguistics	Lucile Petite	2015
GSU/Applied Linguistics	Rebecca Wood	2014
GSU/Applied Linguistics	Wesley Rose	2014
GSU/Applied Linguistics	Caleb DeFore	2012

NSF Research Experiences for Undergraduates (REU) Grants

University/Department	Name	Amount	Year
GSU/Applied Linguistics	Keegan Wray	\$4,000.00	2018
GSU/Applied Linguistics	Haley Anderson	\$4,000.00	2017
GSU/Applied Linguistics	Jacob Snyder	\$8,000.00	2017-2018
GSU/Applied Linguistics	Victoria Morrison	\$6,000.00	2016-2017
GSU/Applied Linguistics	Onisim Nistor	\$6,000.00	2016-2017
GSU/Applied Linguistics	Lucile Petite	\$7,500.00	2015-2016
GSU/Applied Linguistics	Marissa Emory	\$7,500.00	2015-2016
GSU/Applied Linguistics	Rebecca Wood	\$8,000.00	2014-2015
GSU/Applied Linguistics	Wesley Rose	\$8,000.00	2014-2015

Doctoral candidacy examination committee member

University/Department	Name	Year
Vanderbilt/Psychology and Human Development	Langdon Holmes (Chair)	2024
Vanderbilt/Psychology and Human Development	Wesley Morris (Chair)	2024
GSU/Applied Linguistics	Joon Suh Choi (Chair)	2021
GSU/Applied Linguistics	Qian Wan (Chair)	2021
GSU/Applied Linguistics	Yu Tian (Chair)	2021
GSU/Learning Sciences	Daniel Feller	2020
GSU/Applied Linguistics	Kátia Monteiro (Chair)	2018
GSU/Applied Linguistics	Tamanna Mostafa	2018
GSU/Applied Linguistics	Rurik Tywoniw (Chair)	2018
GSU/Applied Linguistics	William Lake	2017-2018
GSU/Applied Linguistics	Ali Heidari (Chair)	2017
GSU/Applied Linguistics	James Garner	2017
GSU/Applied Linguistics	Minkyung Kim (Chair)	2017
GSU/Applied Linguistics	Cynthia Berger (Chair)	2016
GSU/Applied Linguistics	YeonJoo Jung	2016
GSU/Applied Linguistics	Stephen Skalicky (Chair)	2015
GSU/Applied Linguistics	Kristopher Kyle (Chair)	2014

GSU/Applied Linguistics	Ashley Titak	2013
GSU/Applied Linguistics	Brittany Polat (Chair)	2012
GSU/Applied Linguistics	WeiWei Yang	2011

Reader Master's Project/Papers/Theses

University/Department	Name	Year
Vanderbilt/Psychology and Human Development	Langdon Holmes (Chair)	2024
Vanderbilt/Psychology and Human Development	Wesley Morris (Chair)	2024
GSU/Applied Linguistics	Jou-Hsuan Fu	2022
GSU/Learning Sciences	Davis Whaley	2021
GSU/Applied Linguistics	Melanie Knešević	2021
GSU/Applied Linguistics	Kristin Villanueva-Maust	2021
GSU/Applied Linguistics	Jonathan Putnam	2020
GSU/Applied Linguistics	Robert Phillips	2019
GSU/Applied Linguistics	Andrew Smith	2019
GSU/Applied Linguistics	Genggeng Zheng	2019
GSU/Applied Linguistics	Melinda Childs	2017
GSU/Applied Linguistics	Robin Cathey	2016
GSU/Applied Linguistics	Paulene Barnes	2015
GSU/Applied Linguistics	Danielle Francuz Rose	2014
GSU/Applied Linguistics	Samantha Keyser	2013
GSU/Applied Linguistics	Cynthia Murphy	2012

Doctoral dissertation committee chair

University/Department	Name	Graduation/Placement
GSU/Applied Linguistics	Joon Suh Choi	In progress
GSU/Applied Linguistics	Yu Tian	2023/Digital Harbors
GSU/Applied Linguistics	Rurik Tywoniw	2020/University of Illinois
GSU/Applied Linguistics	Katia Monteiro	2020
GSU/Applied Linguistics	MinKyung Kim	2019/Nagoya University of Commerce and Business
GSU/Applied Linguistics	Cynthia Berger	2018/Duolingo
GSU/Applied Linguistics	Stephen Skalicky	2018/University of Wellington
GSU/Applied Linguistics	Kristopher Kyle	2016/University of Oregon

Doctoral dissertation committee member

University/Department	Name	Graduation/Placement
Vanderbilt/Computer Science	Stefan Larson	In Progress
GaTech/School of Interactive Computing	Adam Coscia	In Progress
Monash University/Information Technology	Zijie Zeng	In Progress

GSU/Learning Sciences	Amanda Dahl	2022/University of Michigan
GSU/Learning Sciences	Daniel Feller	2022/University of Memphis
GSU/Applied Linguistics	Tamanna Mostafa	2020/Lionbridge AI
GSU/Applied Linguistics	YeonJoo Jung	2018/Pusan National University
University of Utrecht/Language, Literatures, and Communication	Suzanne Kleijn	2018/University of Utrecht
GSU/Applied Linguistics	James Garner	2018/University of Florida
GSU/Applied Linguistics	Liang Guo	2011/ Shanghai University of Finance and Economics
MSU/Education	Tinukwa Okojie-Boulder	2010/Gannon University

Sponsored Visiting Scholars

Name	Home University	Year
Gabriel Gutu-Robu	University Politehnica of Bucharest (Fulbright)	2021-2022
David Allen	University of Tokyo	2012
Patricia Bertoli-Dutra	Pontificia Universidade Catolica de São Paulo	2010
Selma Elyildirim	Gazi University	2010
Jia Ying	China University of Petroleum	2009

University Service

University	Committee/Activity	Period
Vanderbilt University	Member: College of Connected Computing Faculty Advising Committee	2024-
Vanderbilt University	Member: DSI Admissions Committee	2023-
Vanderbilt University	Member: Peabody College Teaching Committee	2023-
Vanderbilt University	Member: LIVE Executive Committee	2023-
Vanderbilt University	Member: SPED Executive Committee	2022-2023
Vanderbilt University	Member: SPED Doctoral Studies Committee	2022-
Vanderbilt University	Member: LIVE Director Search Committee	2022-2023
Georgia State University	Member: Military Advising Council	2021-2022
Georgia State University	President, Veterans Diverse Faculty Alliance	2020-2022
Georgia State University	Member: Public Interest Technology working group	2019-2022
Georgia State University	Chair or Member of Promotion and Tenure Committee, AL ESL	2016-2022
Georgia State University	Chair: Technology Committee, AL ESL	2014-2022
Georgia State University	Ph.D. Qualifying Exam Committee, AL ESL	2012-2022
Georgia State University	Chair or Member of Faculty Search	2010-2022

	Committee, AL ESL	
Georgia State University	Member: Ph.D. Development Committee, AL ESL	2010-2022
Georgia State University	Member: Department Chair Search Committee, AL ESL	2021
Georgia State University	College of A&S Curriculum Committee	2019-2021
Georgia State University	College of A&S Strategic Plan Implementation Steering Committee	2018
Georgia State University	College of A&S Executive Committee	2017-2019
Georgia State University	Departmental Self Study Committee	2017
Georgia State University	Member: Hiring committee	2016-2019
Georgia State University	Chair: A&S Faculty Awards Committee	2014-2015
Georgia State University	A&S Faculty Awards Committee	2013-2014
Georgia State University	5 th Year Review of Academic Professionals	2013-2014
Georgia State University	Member: Brazilian Task Force Committee	2012-2015
Georgia State University	GSURC Judge and Reviewer	2011-2019
Mississippi State University	Member: Composition Committee	2009-2010
Mississippi State University	Student Advisor	2006-2010
Mississippi State University	Chair: Linguistics Committee	2006-2010
Mississippi State University	Director TESOL Program	2005-2010
University of Memphis	Coordinator Language Forum	2003-2004

Membership in Professional Societies

Society	Period
Educational Data Mining	2013-
Artificial Intelligence in Education	2013-
Society for Text and Discourse	2013-
American Association for Applied Linguists	2008-2024
Society for Learning Analytics Research (SOLAR)	2015-2022
Second Language Research Forum	2004-2015
Cognitive Science Society	2006-2023
Florida Artificial Intelligence Research Society	2007-2017
Society for Computers in Psychology	2008-2023
Teachers of English to Speakers of other Languages	2003-2007
South Atlantic Modern Language Association	2002-2004
South-Eastern Conference on Linguistics	2002-2004

Professional Service

Society/Organization/Journal	Position	Period
Journal of Writing Research	Executive Team	2022-
Winter Text & Discourse	Conference Chair	2024-
Language Learning	Associate Editor	2016-2022
Language Learning & Technology	Associate Editor	2014-2016
International Journal of Artificial Intelligence	Guest Editor: IJAIED-	2023-2024

in Education	LLM23	
ESpecialist	Editorial Board	2014-2016
Journal of Second Language Studies	Editorial Board	2022-
Journal of Second Language Writing	Editorial Board	2015-2017
Journal of Writing Analytics	Editorial Board	2016-
Language Assessment Quarterly	Editorial Board	2014-
Language Teaching	Editorial Board	2013-2020
Routledge frequency dictionaries	Editorial Board	2017-
TESOL Quarterly	Editorial Board	2012-2016
Society for Computers in Psychology	Steering Committee	2013-2016
Atlanta Computational Social Science Workshop	Local Organizer	2015
Florida Artificial Intelligence Research Society	Special Track Co-Chair	2007-2009
Second Language Research Forum	Faculty Advisor	2015
Tools Competition	Grant Reviewer	
National Science Foundation	Grant Reviewer	
Annual Review of Applied Linguistics	Ad-hoc Reviewer	
Assessing Writing	Ad-hoc Reviewer	
Behavior Research Methods	Ad-hoc Reviewer	
Bilingualism: Language and Cognition	Ad-hoc Reviewer	
Cognitive Science Journal	Ad-hoc Reviewer	
Corpus Linguistics and Linguistic Theory	Ad-hoc Reviewer	
Discourse Processing	Ad-hoc Reviewer	
Educational Testing Services	Ad-hoc Reviewer	
English for Specific Purposes	Ad-hoc Reviewer	
International Journal of Corpus Linguistics	Ad-hoc Reviewer	
International Journal of Artificial Intelligence in Education	Ad-hoc Reviewer	
International Journal of Learner Corpus Research	Ad-hoc Reviewer	
Journal of Educational Data Mining	Ad-hoc Reviewer	
Journal of Education Psychology	Ad-hoc Reviewer	
Journal of Health Communication	Ad-hoc Reviewer	
Journal of Reading and Writing	Ad-hoc Reviewer	
Journal of Second Language Writing	Ad-hoc Reviewer	
Journal of Writing Assessment	Ad-hoc Reviewer	
Journal of Writing Research	Ad-hoc Reviewer	
Language Learning	Ad-hoc Reviewer	
Language Teaching	Ad-hoc Reviewer	
Language Testing	Ad-hoc Reviewer	
Linguistics and Education	Ad-hoc Reviewer	
Literary and Linguistic Computing	Ad-hoc Reviewer	
Modern Language Journal	Ad-hoc Reviewer	
PlosOne	Ad-hoc Reviewer	
Psychological Science	Ad-hoc Reviewer	

Psychonomic Bulletin and Review	Ad-hoc Reviewer	
Reading in a Foreign Language	Ad-hoc Reviewer	
Reading and Writing	Ad-hoc Reviewer	
Sage Open	Ad-hoc Reviewer	
Studies in Corpus Linguistics Book Series	Ad-hoc Reviewer	
Studies in Second Language Acquisition	Ad-hoc Reviewer	
System	Ad-hoc Reviewer	
TOEFL Research Subcommittee	Ad-hoc Reviewer	
Transaction on Learning Technologies	Ad-hoc Reviewer	
Written Communication	Ad-hoc Reviewer	
American Association for Applied Linguistics	Abstract Reviewer	2012-2024
British Association for Applied Linguists	Abstract Reviewer	2011
Building Educational Applications Workshop	Abstract Reviewer	2014-2024
Georgetown University Round Table (GURT)	Abstract Reviewer	2019
Second Language Research Forum	Abstract Reviewer	2015
SIG Writing Conference	Abstract Reviewer	2018
Society for Text and Discourse	Abstract Reviewer	2016-
Artificial Intelligence in Education	Proceedings Reviewer	2015-
Cognitive Science Society	Proceedings Reviewer	2009-2011
Computational Linguistics for Linguistic Complexity (CL4LC)	Proceedings Reviewer	2016
Educational Data Mining	Proceedings Reviewer	2015-
Intelligent Tutoring Systems	Proceedings Reviewer	2016
Learning Analytics and Knowledge	Proceedings Reviewer	2016-
North American Chapter of the Association for Computational Linguistics	Proceedings Reviewer	2018
American Association for Applied Linguistics	Travel Grant Committee	2007-2009
International Language Testing Association	Best Article Award Committee	2016-2017
Language Teaching	Christopher Brumfit Thesis Prize Committee	2010-
National Science Foundation	Cyberlearning Panel	2017

External Reviewer for Promotion and Tenure

University	Promotion	Year
Victoria University of Wellington, NZ	Associate Professor	2022
Northern Arizona University	Professor	2022
Iowa State University	Associate Professor	2021
Northern Arizona University	Professor	2019
University of Delaware	Associate Professor	2019

External Advisor

Organization/Funding Agency	Project	Year
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Arizona State University/IES	Learning at Scale	2022-
Arizona State University/IES	Developing a Deeper Understanding of the Cognitive Processes that Drive Multiple Text Comprehension	2019-2024
Educational Testing Service: TOEFL Young Student Series	Expanding Models of Second Language Reading and Listening Comprehension in Young Korean Learners of English: The Roles of Language and Cognition	2017-2019
Arizona State University/DOD-NAVY-ONR	Improving Adult Literacy through Intelligent Tutoring and Games	2014-2019
University of Wisconsin/NSF	Situating Big Data: Assessing Game-Based STEM Learning in Context	2014-2017
Arizona State University/NSF	Collaborative Research: Modeling Social Interaction and Performance in STEM Learning	2014-2016
Northwestern University/NSF	Collaborative Research: Learning Linkages: Integrating Data Streams of Multiple Modalities and Timescales	2014-2017
University of Michigan/IES	Dynamic Support of Contextual Vocabulary Acquisition for Reading (DSCoVAR): An Intelligent Tutoring System	2014-2017
Arizona State University/NSF	Modeling and Supporting Creativity During Collaborative STEM Activities	2013-2017
Arizona State University/IES	The Writing Pal: An Intelligent Tutoring System that Provides Interactive Writing Strategy Training	2008-2016
ACT	Exploring learning progressions in ELA/Literacy	2013
University of Memphis/IES	Coh-Metrix: Automated Cohesion and Coherence Scores to Predict Text Readability and Facilitate Comprehension	2005-2010
Mississippi State University	Migrant Outreach Program	2009-2010
University of Memphis/IES	iSTART: Interactive Strategy Training for interactive Reading and Thinking	2007-2008
Washington State University	Examining language skill and mathematical thinking	2007-2008
LaSalle School System	EFL professional teacher development	2004-2007
Memphis Grizzlies	Language teaching consultant	2002-2003

Honors/Awards/Prizes

Honors/Awards/Prizes	Institution	Year
Best Publicly Available Educational Data Set Prize	International Educational Data Mining Society	2024
Mathematics Automated Scoring	National Assessment for	2023

Challenge for The Nation's Report Card: Grand Prize Winner	Educational Progress (NAEP)	
Fulbright Scholarship, Bucharest, Romania	US Department of State	2022
Automated Scoring Challenge for The Nation's Report Card: Runner up	National Assessment for Educational Progress (NAEP)	2022
Fellow	Society for Text & Discourse	2021-
Tom Trabasso Young Investigator Award	Society for Text & Discourse	2015
Best Article Award	International Language Testing Association [ILTA]	2014
2014 John R. Hayes Award for Excellence in Research	Written Communication	2014
Fulbright Scholarship, Athens Greece	Office of English Language Programs, Bureau of Educational and Cultural Affairs, Public Diplomacy, US Department of State	2011
Outstanding Article of the Year	Language Learning	2010
David Carlisle Hull Faculty Leadership Program	Mississippi State University	2009-2010
Researcher of the Month (A&S)	Mississippi State University	2009 (June)
Excellence in Research: Linguistics	University of Memphis	2003