

DR. JONATHAN DUNN

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POSITIONS

2018-Present	Lecturer (Assistant Professor) University of Canterbury Department of Linguistics	Christchurch, NZL
2015-2018	Research Assistant Professor Illinois Institute of Technology Department of Computer Science	Chicago, IL
2015-2018	Visiting Scientist National Geospatial-Intelligence Agency Through Oak Ridge Institute for Science and Education	Springfield, VA
2015	LSA Linguistic Institute Faculty University of Chicago	Chicago, IL
2014-2015	Research Fellow Illinois Institute of Technology Department of Computer Science	Chicago, IL

EDUCATION

2013	Ph.D., Purdue University Discipline: Linguistics Advisor: Dr. Victor Raskin Thesis: <i>Automatic Identification of Metaphoric Utterances</i>	W. Lafayette, IN
2010	M.A., Purdue University Discipline: Linguistics Advisor: Dr. Victor Raskin Thesis: <i>Towards a Computational Model of Metaphor</i>	W. Lafayette, IN
2008	B.A., Hillsdale College Discipline: Classics	Hillsdale, MI

GRANTS, FELLOWSHIPS, AWARDS

- 2017 Certificate of Merit (Research Award)
Oak Ridge Institute for Science and Education
- 2015-2018 Visiting Scientist Research Fellowship
Oak Ridge Institute for Science and Education
- 2014-2015 IC Postdoctoral Research Fellowship
Illinois Institute of Technology
- 2013 Bilsland Dissertation Fellowship
Purdue University Graduate School
- 2011-2012 Bilsland Strategic Initiatives Grant
Purdue University Graduate School

PEER-REVIEWED ARTICLES

- Dunn, J. (2018). "Multi-Unit Directional Measures of Association: Moving Beyond Pairs of Words." *International Journal of Corpus Linguistics*, 23(2): 183-215.
- Dunn, J. (2018). "Finding Variants for Construction-Based Dialectometry: A Corpus-Based Approach to Regional CxGs." *Cognitive Linguistics*, 29(2): 275-311.
- Dunn, J. (2018). "Modeling the Complexity and Descriptive Adequacy of Construction Grammars." In *Proceedings of the Society for Computation in Linguistics (SCiL 2018)*. Stroudsburg, PA: Association for Computational Linguistics. 81-90.
- Dunn, J. (2017). "Computational Learning of Construction Grammars." *Language and Cognition*, 9(2): 254-292.
- Dunn, J; Argamon, S; Rasooli, A.; & Kumar, G. (2016) "Profile-Based Authorship Analysis." *Literary and Linguistic Computing*, 31(4): 689-710.
- Dunn, J. (2015) "Modeling Abstractness and Metaphoricity." *Metaphor & Symbol*, 30(4): 259-289.
- Dunn, J. (2015). "Three Types of Metaphoric Utterances That Can Synthesize Theories of Metaphor." *Metaphor & Symbol*, 30(1): 1-23.
- Dunn, J. (2014). "Measuring Metaphoricity." In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2014)*. Stroudsburg, PA: Association for Computational Linguistics. 745-751.
- Dunn, J. (2014). "Multi-Dimensional Abstractness in Cross-Domain Mappings." In *Proceedings of the Annual Meeting of the Association for Computational Linguistics: Second Workshop on Metaphor in NLP (ACL 2014)*. Stroudsburg, PA: Association for Computational Linguistics. 27-32.

- Dunn, J.; Beltran de Heredia, J.; Burke, M.; Gandy, L.; Kanareykin, S.; Kapah, O.; Taylor, M.; Hines, D.; Frieder, O.; Grossman, D.; Howard, N.; Koppel, M.; Morris, S.; Ortony, A.; & Argamon, S. (2014). "Language-Independent Ensemble Approaches to Metaphor Identification." In *Proceedings of the 28th Conference on Artificial Intelligence: Workshop on Cognitive Computing for Augmented Human Intelligence (AAAI 2014)*. 6-12.
- Dunn, J. (2013). "How Linguistic Structure Influences and Helps To Predict Metaphoric Meaning." *Cognitive Linguistics*, 24(1): 33-66.
- Dunn, J. (2013). "Evaluating the Premises and Results of Four Metaphor Identification Systems." In *Proceedings of the Conference on Intelligent Text Processing and Computational Linguistics, Vol. 1 (CICLING 2013)*. Heidelberg: Springer. 471-486.
- Dunn, J. (2013). "What Metaphor Identification Systems Can Tell Us About Metaphor-in-Language." In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: First Workshop on Metaphor in NLP (NAACL 2013)*. Stroudsburg, PA: Association for Computational Linguistics. 1-10.
- Dunn, J. (2011). "Gradient Semantic Intuitions of Metaphoric Expressions." *Metaphor & Symbol*, 26(1): 53-67.

PARTIALLY-REVIEWED PUBLICATIONS

- Dunn, J. (2018). "Recursively Emerging Structure: A Discovery-Device CxG." In *Proceedings of the Chicago Linguistics Society*, 53.
- Dunn, J. (2017). "Learnability and Falsifiability of Construction Grammars: A Learning-Based Approach." In *Proceedings of the Linguistic Society of America Annual Meeting*, 1: 1-15.
- Dunn, J. (2015). "Review of Frames and Constructions in Metaphoric Language (Constructional Approaches to Language, 14)." *Cognitive Linguistics*, 26(2): 371-375.
- Dunn, J. (2015). "Review of The Semantic Representation of Natural Language." *Studies in Language*, 39(2): 492-500.
- Dunn, J. (2013). "Review of Converging Evidence: Methodological and Theoretical Issues for Linguistic Research. (Human Cognitive Processing, 33)." *Cognitive Linguistics*, 24(4): 711-717.

CONFERENCE PAPERS

- Dunn, J. (2018, November). "Bootstrapping Corpora for Under-Represented Languages: The Case of Māori." *Annual Meeting of the New Zealand Linguistic Society*. Wellington, NZ.
- Dunn, J. (2018, January). "Corpus-Based Dialectometry Using Construction Grammars." *Annual Meeting of the Linguistic Society of America*. Salt Lake City, UT.
- Dunn, J. (2017, November). "Finding Variants in a Dynamic Feature Space: Classification as Validation." *New Ways of Analyzing Variation*, 46. Madison, WI.

- Dunn, J. (2017, September). "Automating Human Geography With Dialectology." *IC Academic Research Symposium*. Washington, D.C.
- Dunn, J. (2017, May). "Recursively Emerging Structure: A Discovery-Device CxG." *53rd Annual Meeting of the Chicago Linguistic Society*. Chicago, IL.
- Dunn, J. (2017, January). "Learnability and Falsifiability of Construction Grammars: A Learning-Based Approach." *Annual Meeting of the Linguistic Society of America*. Austin, TX.
- Dunn, J. (2016, September). "Finding Variants for Unsupervised Computational Dialect Mapping." *IC Academic Research Symposium*. Washington, D.C.
- Dunn, J & Argamon, S. (2016, January). "Evaluating Unsupervised Profile Bundles for Authorship Analysis." *The Association for Linguistic Evidence Winter Meeting*. Washington, D.C.
- Dunn, J.; Rasooli, A.; & Argamon, S. (2015, May). "Profile-based Authorship Matching." *Midwest Speech and Language Days*. Chicago, IL.
- Dunn, J. & Argamon, S. (2015, January). "The Linguistic Status of Predictions and Feature Ranks from SVM Text Classifiers." *Annual Meeting of the Linguistic Society of America*. Portland, OR.
- Dunn, J. & Argamon, S. (2015, January). "Evaluating Profile-Based Authorship Analysis for Distinguishing Similar Individuals." *Association for Linguistic Evidence Winter Meeting*. Portland, OR.
- Argamon, S. & Dunn, J. (2014, October). "Predicting Political Ideology from Congressional Speeches." *New Directions in Analyzing Text as Data Conference*. Chicago, IL.
- Dunn, J. (2014, April). "Computational Cognitive Stylistics for Multi-Modal Identity Analytics." *Annual IC Postdoctoral Research Fellowship Colloquium*. Washington, D.C.
- Dunn, J. (2014, January). "Computational Evidence for Direct Metaphoric Meaning." *Annual Meeting of the Linguistic Society of America*. Minneapolis, MN.
- Dunn, J. (2013, June). "Three Kinds of Metaphor-in-Language and How We Can Use Them to Synthesize Theories of Metaphor." *International Cognitive Linguistics Conference*. Edmonton, Canada.
- Dunn, J. (2012, November). "Does Humor Interfere with Machine Learning Approaches to Metaphor Identification?" *Association for the Advancement of Artificial Intelligence, Fall Symposium: The Artificial Intelligence of Humor*. Washington, D.C.
- Dunn, J. (2009, October). "Abstract Semantic Structure Versus Conceptual Metaphor Theory." *Mid-America Linguistics Conference*. Columbia, Missouri.
- Dunn, J. (2009, November). "A Deeper Dialect: The Linguistic Atlas of Late Medieval English, Morphophonology, and Word Formation in the Pearl-Poet." *Midwest Modern Language Association*. St. Louis, Missouri.

COURSES TAUGHT

- 2018 "Topics in Syntactic Theory"
University of Canterbury
- 2015 "Data-Driven Computational Pragmatics"
LSA Linguistic Institute, University of Chicago
- 2010-12 "Introduction to Linguistics"
Purdue University
5 times, 35 students each
- 2013 "Classroom Communication for International Graduate Students"
Purdue University
- 2012 "First Year Composition for International Students"
Purdue University
- 2008-11 "First-Year Composition"
Purdue University
6 times, 20 students each

TEACHING AWARDS

- 2012 Purdue University, Center for Instructional Excellence
Graduate Teacher Certificate
- 2012 Purdue University, Department of English
Quintilian Award (Top 10% of Instructor Evaluations)

OTHER TEACHING ACTIVITIES

- 2011-2012 Grant from Purdue University Graduate School
Research grant to improve the use of interdisciplinary coursework
- 2009-2010 Purdue University
Residential Learning Community
Instructor in interdisciplinary, experiential program for freshmen

GRADUATE CERTIFICATES

Equivalent to Ph.D. Secondary Areas

- 2012 Graduate Certificate in Natural Language Processing
Purdue University, NLP Lab
- 2013 Graduate Certificate in the History of the English Language
Purdue University, Department of English
- 2012 Graduate Certificate in Teaching English as a Second Language
Purdue University, Department of English

EDITORIAL BOARD

2018- *Frontiers in Artificial Intelligence* (Language and Computation section)

AD HOC REVIEWING

2019 Linguistic Annotation Workshop (LAW XIII)
2019 North American Association for Computational Linguistics: Program Committee (Style)
2018 Linguistic Society of America, 2019 Annual Meeting
2018 Joint LAW-MWE-CxG Workshop (COLING 2018)
2018 *IEEE Transactions on Audio, Speech and Language Processing* (2x)
2017 Social Sciences and Humanities Research Council of Canada
2017 *Cognitive Linguistics*
2017 *Language & Cognition*
2017 Linguistic Society of America, 2018 Annual Meeting
2017 *Corpus Linguistics and Linguistic Theory*
2017 *The Computer Journal*
2016 Linguistic Society of America, 2017 Annual Meeting
2016 Fourth Workshop on Metaphor in NLP (NAACL 2016)
2015 Linguistic Society of America, 2016 Annual Meeting
2015 *Synthesis Lectures in Human Language Technologies, Book Series* (Morgan Claypool)
2015 *Journal of Artificial Intelligence Research*
2015 *Language Resources and Evaluation*
2015 Third Workshop on Metaphor in NLP (NAACL 2015)
2014 *IEEE Transactions on Audio, Speech and Language Processing*
2014 Croatian Science Foundation
2014 Second Workshop on Metaphor in NLP (ACL 2014)
2012 International Conference on Computational Linguistics (COLING 2012)
2012 Purdue Linguistics Association Annual Symposium

SOFTWARE

C2xG: Computational Construction Grammar

Python package for learning, evaluating, annotating, and vectorizing CxGs
Grammars for ara, deu, eng, fra, por, rus, spa, zho
www.github.com/jonathandunn/c2xg

idNet: Identifying minority languages and regional varieties of majority languages

Python package for state-of-the-art LID and DID
LID: Coverage for 464 languages with sample sizes > 50 chars
DID: Coverage for over 100 varieties of eight major languages
www.github.com/jonathandunn/idNet

Common Crawl Corpus: Corpus building from the common crawl data

www.github.com/jonathandunn/common_crawl_corpus